

NASA SP-7039(32)
Section 2
Indexes

NASA

PATENT

ABSTRACTS

BIBLIOGRAPHY

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JANUARY 1988

(NASA-SP-7039(32)-SECT-2) NASA PATENT
ABSTRACTS BIBLIOGRAPHY: A CONTINUING
BIBLIOGRAPHY. SECTION 2: INDEXES (SUPPLEMENT
32) (NASA) 495 P

N88-18511

CSCL 65B

Unclas

00/82 0126019

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ACCESSION NUMBER RANGES

<i>Bibliography Number</i>	<i>STAR Accession Numbers</i>
NASA SP-7039(04) SEC 1	N69-20701 - N73-33931
NASA SP-7039(12) SEC 1	N74-10001 - N77-34042
NASA SP-7039(13) SEC 1	N78-10001 - N78-22018
NASA SP-7039(14) SEC 1	N78-22019 - N78-34034
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NASA SP-7039(31) SEC 1	N87-10001 - N87-20170
NASA SP-7039(32) SEC 1	N87-20171 - N87-30248

19 Mathematics

Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology

Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation

Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General

Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics, 20 Meteorology, and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma

Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State

Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants

Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also 28 Propulsion Systems.

28 Propulsion Systems

Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation

Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics, and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences

Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles

Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics

Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Subject Categories (1974-)

AERONAUTICS

Includes aeronautics (general); aerodynamics; air transportation and safety; aircraft communications and navigation; aircraft design, testing and performance; aircraft instrumentation; aircraft propulsion and power; aircraft stability and control; and research and support facilities (air).

For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery.

For related information see also *34 Fluid Mechanics and Heat Transfer*

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents.

For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control.

For related information see also *17 Space Communications, Spacecraft Communications, Command and Tracking* and *32 Communications and Radar*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology.

For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*. For land transportation vehicles see *85 Urban Technology and Transportation*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments.

For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft.

For related information see also *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots.

For related information see also *05 Aircraft Design, Testing and Performance*.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands.

For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS

Includes astronautics (general); astrodynamics; ground support systems and facilities (space); launch vehicles and space vehicles; space transportation; space communications, spacecraft communications, command and tracking; spacecraft design, testing and performance; spacecraft instrumentation; and spacecraft propulsion and power.

For related information see also *Aeronautics*

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators.

For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles.

For related information see also *20 Spacecraft Propulsion and Power*.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques.

For related information see also *03 Air Transportation and Safety* and *18 Spacecraft Design, Testing and Performance*. For space suits see *54 Man/System Technology and Life Support*.

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation and guidance; and radio blackout.

For related information see also *04 Aircraft Communications and Navigation* and *32 Communications and Radar*.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls.

For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance*, *39 Structural Mechanics*, and *16 Space Transportation*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g. rocket engines; and spacecraft auxiliary power sources.

For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, *44 Energy Production and Conversion*, and *15 Launch Vehicles and Space Vehicles*.

CHEMISTRY AND MATERIALS

Includes chemistry and materials (general); composite materials; inorganic and physical chemistry; metallic materials; nonmetallic materials; propellants and fuels; and materials processing.

23 CHEMISTRY AND MATERIALS (GENERAL)

24 COMPOSITE MATERIALS

Includes physical, chemical, and mechanical properties of laminates and other composite materials.

For ceramic materials see *27 Nonmetallic Materials*.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry.

For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials.

For composite materials see *24 Composite Materials*.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

29 MATERIALS PROCESSING

Includes space-based development of products and processes for commercial application.

For biological materials see *55 Space Biology*.

ENGINEERING

Includes engineering (general); communications and radar; electronics and electrical engineering; fluid mechanics and heat transfer; instrumentation and photography; lasers and masers; mechanical engineering; quality assurance and reliability; and structural mechanics.

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR

Includes radar; land and global communications; communications theory; and optical communications.

For related information see also *04 Aircraft Communications and Navigation* and *17 Space Communications, Spacecraft Communications, Command and Tracking*. For search and rescue see *03 Air Transportation and Safety*, and *16 Space Transportation*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry.

For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling.

For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gages; detectors; cameras and photographic supplies; and holography.

For aerial photography see *43 Earth Resources and Remote Sensing*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers.

For related information see also *76 Solid-State Physics*.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress.

For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES

Includes geosciences (general); earth resources and remote sensing; energy production and conversion; environment pollution; geophysics; meteorology and climatology; and oceanography.

For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES AND REMOTE SENSING

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography.

For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *28 Propellants and Fuels*.

45 ENVIRONMENT POLLUTION

Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism.

For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic, and physical oceanography; and marine resources.

For related information see also *43 Earth Resources and Remote Sensing*.

LIFE SCIENCES

Includes life sciences (general); aerospace medicine; behavioral sciences; man/system technology and life support; and space biology.

51 LIFE SCIENCES (GENERAL)

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing.

For related information see also *16 Space Transportation*.

55 SPACE BIOLOGY

Includes exobiology; planetary biology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

Includes mathematical and computer sciences (general); computer operations and hardware; computer programming and software; computer systems; cybernetics; numerical analysis; statistics and probability; systems analysis; and theoretical mathematics.

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes hardware for computer graphics, firmware, and data processing.

For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS

Includes computer networks and special application computer systems.

63 CYBERNETICS

Includes feedback and control theory, artificial intelligence, robotics and expert systems.

For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS

Includes physics (general); acoustics; atomic and molecular physics; nuclear and high-energy physics; optics; plasma physics; solid-state physics; and thermodynamics and statistical physics.

For related information see also *Engineering*.

70 PHYSICS (GENERAL)

For precision time and time interval (PTTI) see *35 Instrumentation and Photography*; for geophysics, astrophysics or solar physics see *46 Geophysics*, *90 Astrophysics*, or *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation.

For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory.

For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena and optical devices.

For lasers see *36 Lasers and Masers*.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion.

For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity.

For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics.

For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES

Includes social sciences (general); administration and management; documentation and information science; economics and cost analysis; law, political science, and space policy; and urban technology and transportation.

80 SOCIAL SCIENCES (GENERAL)

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography.

For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY

Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation.

For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*.

SPACE SCIENCES

Includes space sciences (general); astronomy; astrophysics; lunar and planetary exploration; solar physics; and space radiation.

For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY

Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS

Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust.

For related information see also *75 Plasma Physics*.

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology; and manned and unmanned flights.

For spacecraft design or space stations see *18 Spacecraft Design, Testing and Performance*.

92 SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots.

For related information see *93 Space Radiation*.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts.

For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL

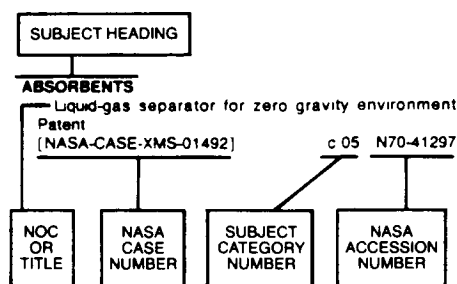
Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

99 GENERAL

Section 2 • Indexes

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Typical Subject Index Listing



The subject heading is a key to the subject content of the document. A brief description of the document, e.g., title, title plus a title extension, or Notation of Content (NOC), is included for each subject entry to indicate the subject heading context; these descriptions are arranged under each subject heading in ascending accession number order. The NASA Case Number serves as the prime access number to the patent documents. The Subject Category Number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The NASA accession number denotes the number by which the citation is identified within the subject category.

A

ABERRATION

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

ABILITIES

Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

ABLATION

Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911

ABLATIVE MATERIALS

Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947

Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376

ABORT APPARATUS

Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846

ABRASION

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

ABRASION RESISTANCE

Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324

ABRASIVES

Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

ABSORBERS

Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

ABSORBERS (EQUIPMENT)

Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362

ABSORBERS (MATERIALS)

Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281

Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

ABSORPTION

Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1-CU] c 35 N86-29174

ABSORPTION COOLING

Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159

ABSORPTION CROSS SECTIONS

Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

ABSORPTION SPECTRA

Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

ABSORPTION SPECTROSCOPY

Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264

ABSORPTIVITY

Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875

AC GENERATORS

Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660

ACCELERATION

Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699

ACCELERATION (PHYSICS)

Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

ACCELERATION PROTECTION

Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268

ACCELERATION STRESSES (PHYSIOLOGY)

Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881

ACCELERATION TOLERANCE

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185

ACCELERATORS

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

ACCELEROMETERS

ACCELEROMETERS

- Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
- Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
- Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
- Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
- Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347

ACCEPTABILITY

- Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395

ACCEPTOR MATERIALS

- III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

ACCIDENT PREVENTION

- CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

ACCOMMODATION

- Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

ACCUMULATORS

- Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
- Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
- Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
- Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
- Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
- Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

ACETALS

- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243

ACETATES

- Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

ACETYL COMPOUNDS

- Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973

ACETYLENE

- Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
- Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907

ACOUSTIC ATTENUATION

- Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

ACOUSTIC DUCTS

- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418

ACOUSTIC EMISSION

- Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N87-14676

ACOUSTIC EXCITATION

- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

ACOUSTIC IMPEDANCE

- Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

ACOUSTIC LEVITATION

- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
- Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
- High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
- Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
- Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N86-20087
- Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
- Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551

ACOUSTIC MEASUREMENT

- Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
- Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
- Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
- System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1CU] c 35 N86-32700
- Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

ACOUSTIC PROPAGATION

- Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
- Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753

ACOUSTIC PROPERTIES

- Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
- Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
- Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
- Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

ACOUSTICAL HOLOGRAPHY

- Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

ACOUSTICS

- Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765

ACOUSTO-OPTICS

- Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
- Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
- Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

ACRYLATES

- Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

ACRYLONITRILES

- Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

ACTIVATED CARBON

- Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

ACTIVATION ENERGY

- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034

ACTUATION

- Magetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

ACTUATOR DISKS

- Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323

ACTUATORS

- Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
- Bi-metallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
- Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
- Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
- Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
- Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
- Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
- Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
- Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
- Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
- Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
- Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
- Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
- Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
- Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
- Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
- Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483

Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769

Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

Improved control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N87-24461

Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N87-29799

ADAPTATION
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

ADAPTERS
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474

Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

ADAPTIVE CONTROL
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941

Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920

Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

ADAPTIVE FILTERS
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986

Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

ADAPTIVE OPTICS
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

ADDING CIRCUITS
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787

Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843

ADDITION RESINS
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229

ADDITIVES
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

ADDRESSING
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

ADENOSINE TRIPHOSPHATE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011

Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794

Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ADHESION
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392

Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

ADHESION TESTS
Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

ADHESIVE BONDING
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895

Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651

Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828

Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397

Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355

Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221

Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077

Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340

Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855

Impacting device for testing insulation
[NASA-CASE-MSC-25862-2] c 37 N84-33807

Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125

High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561

ADHESIVES
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263

Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205

Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158

Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240

Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

ADJUSTING
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898

Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386

Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484

Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392

Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982

AERIAL RUDDERS
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

AEROACOUSTICS
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

AERODYNAMIC BALANCE
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999

AERODYNAMIC BRAKES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034

AERODYNAMIC CHARACTERISTICS
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266

Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854

Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC CONFIGURATIONS
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938

Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674

Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493

Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018

Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257

Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226

Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

A multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N87-25320

AERODYNAMIC DRAG
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

AERODYNAMIC HEATING
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897

Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947

AERODYNAMIC INTERFERENCE
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

A multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N87-25320

AERODYNAMIC LOADS
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

AERODYNAMIC NOISE
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC STABILITY
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

- Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- AERODYNAMIC STALLING**
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- AEROELASTICITY**
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- AERONAUTICAL ENGINEERING**
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- AEROSOLS**
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
- AEROSPACE ENGINEERING**
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
- Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- AEROSPACE ENVIRONMENTS**
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[NASA-CASE-XLE-01902] c 28 N71-10574
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
- Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
- Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
- Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
- Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- Space spider crane
[NASA-CASE-LAR-13411-1SB] c 18 N87-15259
- Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N87-15452
- Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- AEROSPACE MEDICINE**
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

AEROSPACE VEHICLES

- Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
- Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
- Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
- Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- Dorsal fin for earth-to-orbit transports
[NASA-CASE-LAR-13127-1] c 18 N87-24524
- AEROSPACEPLANES**
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- AFTERBODIES**
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- AFTERBURNING**
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
- AGGLOMERATION**
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- AGING (MATERIALS)**
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- AGRICULTURE**
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701
- AILERONS**
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- AIR**
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
- Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
- AIR BREATHING ENGINES**
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
- AIR CONDITIONING**
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- AIR CONDITIONING EQUIPMENT**
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
- AIR COOLING**
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
- AIR FILTERS**
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
- AIR FLOW**
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
- Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
- Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
- Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
- Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418

- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- AIR INTAKES**
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
- Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
- Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- AIR LOCKS**
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
- Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
- An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
- Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
- Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
- AIR NAVIGATION**
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- AIR POLLUTION**
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- AIR PURIFICATION**
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
- AIR QUALITY**
Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- AIR SAMPLING**
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
- Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- AIR START**
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- AIR TRAFFIC CONTROL**
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080

- Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
- AIR TRANSPORTATION**
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- AIRBORNE EQUIPMENT**
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
- AIRBORNE/SPACEBORNE COMPUTERS**
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
- AIRCRAFT**
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- AIRCRAFT ACCIDENTS**
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- AIRCRAFT ANTENNAS**
Spiral slotted phased antenna array
[NASA-CASE-MS-C-18532-1] c 32 N82-27558
- AIRCRAFT COMPARTMENTS**
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- AIRCRAFT CONFIGURATIONS**
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- AIRCRAFT CONSTRUCTION MATERIALS**
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- AIRCRAFT CONTROL**
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Flight control system
[NASA-CASE-MS-C-13397-1] c 21 N72-25595
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N87-18561
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- AIRCRAFT DESIGN**
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
A multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N87-25320
- AIRCRAFT DETECTION**
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
- AIRCRAFT ENGINES**
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- AIRCRAFT EQUIPMENT**
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N86-26296
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Improved control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N87-24461
- AIRCRAFT FUEL SYSTEMS**
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- AIRCRAFT GUIDANCE**
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
- AIRCRAFT HAZARDS**
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- AIRCRAFT HYDRAULIC SYSTEMS**
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Improved control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N87-24461
- AIRCRAFT INSTRUMENTS**
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- AIRCRAFT LANDING**
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
- AIRCRAFT LAUNCHING DEVICES**
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076
- AIRCRAFT MANEUVERS**
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
- AIRCRAFT MODELS**
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
- AIRCRAFT NOISE**
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
- AIRCRAFT PERFORMANCE**
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N87-18561
- AIRCRAFT PILOTS**
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- AIRCRAFT SAFETY**
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- AIRCRAFT SPIN**
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
- AIRCRAFT STABILITY**
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N87-18561
- AIRCRAFT STRUCTURES**
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230

- Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
- Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- The 1-(diorganooxy phosphonyl) methyl-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- AIRCRAFT TIRES**
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
- AIRCRAFT WAKES**
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- AIRFOIL PROFILES**
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- AIRFOILS**
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
- Surface finishing
[NASA-CASE-MS-C-12631-3] c 27 N81-14077
- Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
- High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N87-14282
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N87-25559
- AIRFRAMES**
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- AIRSPEED**
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- ALCOHOLS**
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- ALDEHYDES**
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

ALGORITHMS

- Systolic VLSI array for implementing the Kalman filter Algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N87-27926
- ALIGNMENT**
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
- Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MS-C-12559-1] c 18 N76-14186
- Method of constructing dish ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
- Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
- Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- X-ray determination of parts alignment
[NASA-CASE-MS-C-20418-1] c 74 N86-20126
- Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- ALIPHATIC COMPOUNDS**
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- ALKALI HALIDES**
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- ALKALI METALS**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- ALKALINE BATTERIES**
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615

- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- ALKALINE EARTH OXIDES**
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- ALKYL COMPOUNDS**
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- ALKYNES**
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- ALLOYS**
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- ALPHA PARTICLES**
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- ALPHANUMERIC CHARACTERS**
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
- ALTERNATING CURRENT**
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Phase protection system for ac power lines
[NASA-CASE-MS-C-17832-1] c 33 N74-14956
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
- Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
- Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660

- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- ALTIMETERS**
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- ALTITUDE**
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- ALTITUDE CONTROL**
- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- ALUMINUM**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- ALUMINUM ALLOYS**
- Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
- Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
- Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- ALUMINUM COATINGS**
- Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
- Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- ALUMINUM COMPOUNDS**
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- ALUMINUM OXIDES**
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
- ALUMINUM SILICATES**
- Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
- AMBIENT TEMPERATURE**
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- AMIDES**
- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- AMINES**
- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Amine terminated bisaspartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Aminophenoxycyclophosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- AMINO ACIDS**
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- AMMONIA**
- Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
- AMMONIUM NITRATES**
- High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
- AMMONIUM PERCHLORATES**
- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
- AMORPHOUS MATERIALS**
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- AMPLIFICATION**
- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
- Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
- Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
- Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
- Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
- Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
- AMPLIFIER DESIGN**
- Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
- AMPLIFIERS**
- Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
- High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- AMPLITUDE DISTRIBUTION ANALYSIS**
- System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
- AMPLITUDE MODULATION**
- Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
- Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
- Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- AMPLITUDES**
- Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- AMPOULES**
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
- ANALGESIA**
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764
- ANALOG CIRCUITS**
- Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- ANALOG COMPUTERS**
- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
- ANALOG DATA**
- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
- Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
- Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
- Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
- ANALOG SIMULATION**
- Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
- ANALOG TO DIGITAL CONVERTERS**
- Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
- Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
- Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
- Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
- Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
- Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
- Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
- Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166
- Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
- Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
- Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
- Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345
- Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
- Frequency domain laser velocimeter signal
[NASA-CASE-LAR-13552-1-CU] c 33 N87-18761

- A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N87-29737
- ANALYZERS**
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
- ANCHORS (FASTENERS)**
- Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
- ANEMOMETERS**
- Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
- Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
- Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- ANGIOGRAPHY**
- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
- ANGLE OF ATTACK**
- Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395
- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- ANGLES (GEOMETRY)**
- Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
- ANGULAR ACCELERATION**
- Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682
- ANGULAR CORRELATION**
- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- ANGULAR DISTRIBUTION**
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- ANGULAR MOMENTUM**
- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- ANGULAR RESOLUTION**
- Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
- ANGULAR VELOCITY**
- Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-ICU] c 35 N86-32695
- ANHYDRIDES**
- Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- ANILINE**
- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- ANIMALS**
- Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778

- Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
- ANISOTROPIC MEDIA**
- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- ANNEALING**
- Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- ANNULAR NOZZLES**
- Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- ANNULAR PLATES**
- Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
- Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
- ANNULI**
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- ANODES**
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
- Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- ANODIC COATINGS**
- Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
- Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- ANOMALIES**
- Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- ANTENNA ARRAYS**
- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
- Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
- Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
- Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
- Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
- Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
- Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
- Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234

- Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
- Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
- RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
- Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
- Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
- Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
- Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- ANTENNA COMPONENTS**
- Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- ANTENNA COUPLERS**
- Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
- ANTENNA DESIGN**
- Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
- Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
- Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
- Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
- Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-GSC-11760-1] c 33 N75-19516
- Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
- Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N87-29718
- ANTENNA FEEDS**
- Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
- Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
- Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
- Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
- Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
- ANTENNA RADIATION PATTERNS**
- Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
- Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- ANTENNAS**
- Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
- High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
- ANTIBIOTICS**
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- ANTIFRICTION BEARINGS**
- Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
- Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
- High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
- Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- ANTIGRAVITY**
- Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789
- ANTIHISTAMINICS**
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764
- ANTIREFLECTION COATINGS**
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- ANVILS**
- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
- APERTURES**
- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- APOLLO PROJECT**
- Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- APOLLO SPACECRAFT**
- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
- APPLICATIONS OF MATHEMATICS**
- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- APPROACH**
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- AQUATIC PLANTS**
- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- AQUEOUS SOLUTIONS**
- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- ARC DISCHARGES**
- Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- ARC HEATING**
- Electric arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
- ARC JET ENGINES**
- Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
- Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N87-25335
- ARC LAMPS**
- Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540

- Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
- Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
- Arc lamp power supply
[NASA-CASE-LAR-13202-1] c 33 N86-32626
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
- ARC SPRAYING**
Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027
- ARC WELDING**
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
- Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N87-25587
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
- ARCHITECTURE**
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
- ARCHITECTURE (COMPUTERS)**
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
- Distributed multipoint memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270
- ARGON**
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- ARM (ANATOMY)**
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
- ARMATURES**
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
- Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- AROMATIC COMPOUNDS**
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- ARRAYS**
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

ARTERIES

- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

ARTIFICIAL CLOUDS

- Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

ARTIFICIAL GRAVITY

- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
- Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
- Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ARTIFICIAL SATELLITES

- Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

ASBESTOS

- Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204

ASPECT RATIO

- Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
- Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
- Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011

ASPHALT

- Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

ASSAYING

- Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ASSEMBLIES

- Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
- Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
- Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
- Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
- X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
- Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
- Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

ASSOCIATIVE PROCESSING (COMPUTERS)

- Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803

ASTRONAUT LOCOMOTION

- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
- Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

ASTRONAUT MANEUVERING EQUIPMENT

- Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
- Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

ASTRONAUT PERFORMANCE

- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

ASTRONAUT TRAINING

- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
- Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
- Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

ASTRONAUTS

- Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N87-25586

ASTRONAVIGATION

- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

ASTRONOMICAL PHOTOGRAPHY

- Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419

ASTRONOMICAL TELESCOPES

- Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
- Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

ASYMMETRY

- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

ATMOSPHERIC COMPOSITION

- Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
- Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

ATMOSPHERIC DENSITY

- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

ATMOSPHERIC ENTRY

- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

ATMOSPHERIC ENTRY SIMULATION

- Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

ATMOSPHERIC MOISTURE

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

ATMOSPHERIC PHYSICS

- Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

ATMOSPHERIC PRESSURE

- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

ATMOSPHERIC RADIATION

- Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

ATMOSPHERIC REFRACTION

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

ATMOSPHERIC SCATTERING

- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

ATMOSPHERIC SOUNDING

- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

ATMOSPHERIC TEMPERATURE

- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

ATMOSPHERIC TURBULENCE

- Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

ATOMIC BEAMS

- Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661

ATOMIC EXCITATIONS

- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

ATOMIZERS

- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

ATS

- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

ATTACHMENT

- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

ATTENUATORS

- Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

ATTITUDE (INCLINATION)

- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

ATTITUDE CONTROL

- Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

ATTITUDE GYROS

- Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113

ATTITUDE INDICATORS

- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

ATTITUDE STABILITY

- Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

AUDIO EQUIPMENT

- Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

AUDIO FREQUENCIES

- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408

AUDIO SIGNALS

- Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

AUDITORY DEFECTS

- Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375

AUDITORY PERCEPTION

- Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUDITORY SIGNALS

- Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

AUDITORY STIMULI

- Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUGER EFFECT

- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

AUSTENITIC STAINLESS STEELS

- Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

AUTOCLAVES

- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

AUTOCORRELATION

- Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476

AUTOMATIC CONTROL

- Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

- Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
- Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
- Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
- Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
- Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

AUTOMATIC CONTROL VALVES

- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
- Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
- Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

AUTOMATIC FREQUENCY CONTROL

- Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
- Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
- Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
- Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Frequency domain laser velocimeter signal
[NASA-CASE-LAR-13552-1-CU] c 33 N87-18761
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

AUTOMATIC GAIN CONTROL

- Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
- Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
- Frequency domain laser velocimeter signal
[NASA-CASE-LAR-13552-1-CU] c 33 N87-18761

AUTOMATIC TEST EQUIPMENT

- Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
- Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
- Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

AUTOMATION

- Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

AUTOMOBILE ENGINES

- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

AUTOMOBILE FUELS

- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

AUTONOMOUS NAVIGATION

- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

AUXILIARY POWER SOURCES

- Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

AVERAGE

- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

AVIONICS

- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

AXES (REFERENCE LINES)

- Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

AXES OF ROTATION

- Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
- Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
- Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620

AXIAL COMPRESSION LOADS

- Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

AXIAL FLOW

- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

AXIAL FLOW PUMPS

- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

AXIAL FLOW TURBINES

- Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
- Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

AXIAL LOADS

- Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
- Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

AXIAL STRESS

- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

AZIMUTH

- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

AZINES

- Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Perfluoroalkyl polytriazines containing pendent iodo difluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

AZO COMPOUNDS

- Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177

AZOLES

- Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

B**BACK INJURIES**

- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

BACKGROUND NOISE

- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

BACKGROUND RADIATION

- Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

BACKSCATTERING

- Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
- Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

BACKUPS

- Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
- Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935

BACKWARD WAVES

- Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
- Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

BACTERIA

- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
- Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
- Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
- Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BACTERIOLOGY

- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
- Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677

BAFFLES

- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

BAGS

- Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192

- Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
- BAKING**
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MS-C-18934-3] c 24 N82-26387
- BALANCE**
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
- BALANCING**
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- BALL BEARINGS**
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- BALLAST (MASS)**
Life raft stabilizer
[NASA-CASE-MS-C-12393-1] c 02 N73-26006
- BALLASTS (IMPEDANCES)**
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MS-C-18407-1] c 33 N82-24427
- BALLISTICS**
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
- BALLOON SOUNDING**
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
- BALLOONS**
Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- BALLS**
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- BANDPASS FILTERS**
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 03 N73-26195
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
- BANDWIDTH**
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MS-C-20821-1] c 17 N87-25348
- BARIUM**
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097
- BARIUM COMPOUNDS**
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- BARIUM FLUORIDES**
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
- BARIUM ION CLOUDS**
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
- BARIUM TITANATES**
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
- BARRIER LAYERS**
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- BARRIERS**
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- BARS**
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- BASES (CHEMICAL)**
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- BATTERY CHARGERS**
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531
- BAYARD-ALPERT IONIZATION GAGES**
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
- BAYS (STRUCTURAL UNITS)**
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
- BEADS**
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- BEAM LEADS**
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
- BEAM SPLITTERS**
Optical range finder having nonoverlapping complete images
[NASA-CASE-MS-C-12105-1] c 14 N72-21409
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
- BEAM SWITCHING**
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
- BEAM WAVEGUIDES**
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- BEAMS (RADIATION)**
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- BEAMS (SUPPORTS)**
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N87-15260
Bi-stern gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N87-25586
- BEARING**
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
- BEARING (DIRECTION)**
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

BEARINGS

- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

BEARINGS

- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
- Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
- Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
- Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
- Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
- Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581

BEDS (PROCESS ENGINEERING)

- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
- Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

BEER LAW

- A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

BEES

- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

BELLAWS

- Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
- Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

BELTS

- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

BENDING

- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

BENDING DIAGRAMS

- Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

BENDING FATIGUE

- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

BENDING MOMENTS

- Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

BENDING VIBRATION

- Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

BENZENE

- Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
- Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

BERYLLIUM ALLOYS

- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

BERYLLIUM HYDRIDES

- Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

BERYLLIUM OXIDES

- High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

BIMETALS

- Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
- Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
- Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
- Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
- Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

BINARY CODES

- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
- Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
- Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

BINARY DATA

- Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
- Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
- Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
- Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

BINARY DIGITS

- Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
- Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
- Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
- Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

- Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
- Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
- High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
- A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850

BINARY FLUIDS

- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

BINARY TO DECIMAL CONVERTERS

- Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
- High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

BINDERS (MATERIALS)

- Bonded solid lubricant coating Patent
[NASA-CASE-XBMS-00259] c 18 N70-36400
- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

BINOCULARS

- Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882

BIOASSAY

- Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
- Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
- Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Servo-controlled intravitral microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

BIOGRADATION

- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

BIODYNAMICS

- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

BIOELECTRIC POTENTIAL

- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

BIOELECTRICITY

- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

BIOENGINEERING

- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772

- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- Urine collection device
[NASA-CASE-ARC-16433-1] c 52 N81-24711
- Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-ARC-18761-1] c 52 N83-27577
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- BIOSYSTEMS**
- Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
- EEG sleep analyzer and method of operation Patent
[NASA-CASE-ARC-13282-1] c 05 N71-24729
- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
- Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
- Snap-in compressible biomedical electrode
[NASA-CASE-ARC-14623-1] c 52 N77-28717
- Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-ARC-16777-1] c 51 N80-27067
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- Logic-controlled occlusive cuff system
[NASA-CASE-ARC-14836-1] c 52 N82-11770
- Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- BIOLUMINESCENCE**
- Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
- Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
- Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
- Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- BIOMEDICAL DATA**
- Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
- BIOMETRICS**
- Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
- Compressible biomedical electrode
[NASA-CASE-ARC-13648] c 05 N72-27103
- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
- Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- Multi-functional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
- Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- BIOTELEMETRY**
- Telemetry adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-ARC-14180-1] c 52 N76-14757
- Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
- Miniature ingestible telemetry devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
- BIPOLAR TRANSISTORS**
- Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- BIREFRINGENCE**
- Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
- BISMALEIMIDE**
- Amine terminated bisapartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
- Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
- BISMUTH**
- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
- BISMUTH COMPOUNDS**
- Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
- BISTABLE CIRCUITS**
- AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
- BIT SYNCHRONIZATION**
- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
- Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
- Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
- Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
- Real-time simulation clock
[NASA-CASE-LAR-13615-1] c 35 N87-24682
- BINARY CODE**
- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- BITS**
- Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
- MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-ARC-12743-1] c 32 N79-10263
- BITUMENS**
- Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
- BLACK BODY RADIATION**
- Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
- Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
- Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
- BLADDER**
- Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
- Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- BLADE TIPS**
- Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- BLADES**
- Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
- BLADES (CUTTERS)**
- Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
- Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
- Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- BLAST LOADS**
- Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
- BLOOD**
- Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
- Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- BLOOD FLOW**
- Logic-controlled occlusive cuff system
[NASA-CASE-ARC-14836-1] c 52 N82-11770
- BLOOD PRESSURE**
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-ARC-13999-1] c 52 N74-26626
- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
- Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
- BLOOD VESSELS**
- Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
- BLUFF BODIES**
- Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
- BLUNT BODIES**
- Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
- BODIES OF REVOLUTION**
- Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
- Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
- BODY FLUIDS**
- Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- BODY KINEMATICS**
- Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
- Kinesimetric method and apparatus
[NASA-CASE-ARC-18929-1] c 39 N83-20280
- BODY MEASUREMENT (BIOLOGY)**
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
- Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- Kinesimetric method and apparatus
[NASA-CASE-ARC-18929-1] c 39 N83-20280
- Apparatus for determining changes in limb volume
[NASA-CASE-ARC-18759-1] c 52 N83-27578
- BODY TEMPERATURE**
- Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BODY VOLUME (BIOLOGY)

BODY VOLUME (BIOLOGY)

- Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY-WING CONFIGURATIONS

- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

BOILERS

- Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

BOLOMETERS

- Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

BOLTED JOINTS

- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Technique for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N87-25577

BOLTS

- Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Bearing bypass material testing system
[NASA-CASE-LAR-13458-1] c 35 N87-25556
Technique for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N87-25577

BONDING

- Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

BONES

- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

BOOMS (EQUIPMENT)

- Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N87-18596

BOOSTER RECOVERY

- Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161

BOOSTER ROCKET ENGINES

- Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Earth-to-orbit vehicle providing a reusable orbital stage and method of utilizing same
[NASA-CASE-LAR-13486-1] c 16 N87-29582

BOOTS (FOOTWEAR)

- Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675

BOREHOLES

- Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

BORIDES

- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N87-10205

BORING MACHINES

- Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709

BORON

- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329

BORON CARBIDES

- Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

BORON CHLORIDES

- Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698

BORON COMPOUNDS

- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N87-10205

BORON FLUORIDES

- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

BOROSILICATE GLASS

- Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520

BOULES

- Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

BOUNDARY LAYER CONTROL

- Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575

BOUNDARY LAYER FLOW

- Combined riblet and LEBU drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N85-28922

BOUNDARY LAYER SEPARATION

- Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

BOUNDARY LAYER TRANSITION

- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N87-18535
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N87-23587

BOUNDARY LAYERS

- Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

BOXES (CONTAINERS)

- Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

BRACKETS

- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N87-18595
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

BRAILLE

- Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BRAKES (FOR ARRESTING MOTION)

- Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601

BRAKING

- Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Helicopter having a disengageable tail rotor
[NASA-CASE-LAR-13609-1] c 05 N87-24460

BRAZING

- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455

BREATHING APPARATUS

- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

BRICKS

- Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921

BRIDGMAN METHOD

- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

BRIGHTNESS

Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

BRIGHTNESS DISCRIMINATION

Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890

BRITTLENESS

Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

BROADBAND

Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Flexible blade antenna Patent
[NASA-CASE-MS-C-12101] c 09 N71-18720
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

BROADBAND AMPLIFIERS

Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

BROADCASTING

Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194

BROMINATION

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

BROMINE

Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641

BROMINE COMPOUNDS

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

BRONZES

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

BRUSHES

Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818

BRUSHES (ELECTRICAL CONTACTS)

Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

BUBBLES

Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

BUCKLING

Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

BUFFER STORAGE

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BUFFERS (CHEMISTRY)

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

BUILDINGS

Foldable construction block
[NASA-CASE-MS-C-12233-1] c 15 N72-25454

BULBS

External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362

BULKHEADS

Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

BUOYANCY

Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

BURNERS

Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

BURNING RATE

Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

BURNOUT

Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381

BURNS (INJURIES)

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

BUS CONDUCTORS

Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

BUTANES

Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BUTT JOINTS

Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376

BUTTERFLY VALVES

Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376

BUTYRIC ACID

Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BYPASSES

Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

C**CABLE FORCE RECORDERS**

Winch having cable position and load indicators Patent
[NASA-CASE-MS-C-12052-1] c 15 N71-24599

CABLES

Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Deployable flexible tunnel
[NASA-CASE-MFS-22836-1] c 37 N76-22540

CABLES (ROPES)

High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
Flexible/rigidifiable cable assembly
[NASA-CASE-MS-C-13512-1] c 15 N72-22485
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601

CADMIUM SULFIDES

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N85-33826

CALCIUM

Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
CALCIUM FLUORIDES
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

CALCIUM OXIDES

Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CALCIUM PHOSPHATES

Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

CALCULATORS

Sun angle calculator
[NASA-CASE-MS-C-12617-1] c 35 N76-29552

CALCULI

Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

CALIBRATING

Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Means and method for calibrating a photon detector
utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Method and apparatus for self-calibration and phasing
of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
Ultrasonic angle beam standard reflector --- ultrasonic
nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Spinning disk calibration method and apparatus for laser
Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Antimultipath communication by injecting tone into null
in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Depolarization measurement method and device
[NASA-CASE-LAR-13621-1] c 70 N87-25822

CALORIMETERS

Constant temperature heat sink for calorimeters
Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Heat flow calorimeter --- measures output of Ni-Cd
batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426

CAMERA SHUTTERS

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary solenoid shutter drive assembly and rotary inertia
damper and stop plate assembly --- for use with cameras
mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861

CAMERAS

Measurement of time differences between luminous
events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
On-film optical recording of camera lens settings
[NASA-CASE-MS-12363-1] c 14 N73-26431
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Real time, large volume, moving scene holographic
camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift
compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

CAMS

Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
CAM controlled retractable door latch
[NASA-CASE-MS-20304-1] c 37 N82-31690

CANARD CONFIGURATIONS

Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Missile rolling tail brake torque system --- simulating
bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

CANCER

Coupling apparatus for ultrasonic medical diagnostic
system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

CANOPIES

Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

CANS

Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464

CANTILEVER BEAMS

Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418

CANTILEVER MEMBERS

Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407

CAPACITANCE

Device for determining the accuracy of the flare on a
flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Floating two force component measuring device
Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Thin film capacitive bolometer and temperature sensor
Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Capacitive tank gaging apparatus being independent of
liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
Dynamic capacitor having a peripherally driven element
and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

CAPACITANCE SWITCHES

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
Ultra-long monostable multivibrator employing bistable
semiconductor switch to allow charging of timing circuit
Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

CAPACITORS

Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Apparatus having coaxial capacitor structure for
measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Meteoroid sensing apparatus having a coincidence
network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Measurement of time differences between luminous
events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Insulated electrocardiographic electrodes --- without
paste electrolyte
[NASA-CASE-MS-14339-1] c 05 N75-24716
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Regulated high efficiency, lightweight capacitor-diode
multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Dynamic capacitor having a peripherally driven element
and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Laser activated MTOs microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Water-absorbing capacitor system for measuring relative
humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

CAPILLARY FLOW

Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035

Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Capillary heat transport and fluid management device
--- spacecraft thermal control
[NASA-CASE-MFS-28217-1] c 34 N87-29769

CAPILLARY TUBES

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diffused waveguiding capillary tube with distributed
feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428

CARBAZOLES

Method of using photovoltaic cell using
poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698

CARBIDES

Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

CARBOHYDRATES

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

CARBON

Low density bismaleimide-carbon microballoon
composites --- aircraft and submarine compartment
safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Electrophotolysis oxidation system for measurement of
organic concentration in water
[NASA-CASE-MS-16497-1] c 25 N82-12166
Apparatus and method for destructive removal of
particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Carbon granule probe microphone for leak detection ---
recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

CARBON ARCS

Water cooled contactor for anode in carbon arc
mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

CARBON COMPOUNDS

Method of coating carbonaceous base to prevent
oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Surfactant-assisted liquefaction of particulate
carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

CARBON DIOXIDE

Techniques for insulating cryogenic fuel containers
Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Miniature carbon dioxide sensor and methods
[NASA-CASE-MS-13332-1] c 14 N72-21408
Metabolic rate meter and method
[NASA-CASE-MS-12239-1] c 52 N79-21750

CARBON DIOXIDE LASERS

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N78-18427
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-1SB] c 25 N86-32540

CARBON DIOXIDE REMOVAL

Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Regenerable device for scrubbing breathable air of CO₂
and moisture without special heat exchanger equipment
[NASA-CASE-MS-14771-1] c 54 N77-32722
Portable breathing system --- a breathing apparatus
using a rebreathing system of heat exchangers for carbon
dioxide removal
[NASA-CASE-MS-16182-1] c 54 N80-10799

CARBON FIBER REINFORCED PLASTICS

- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
- Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260

CARBON FIBERS

- Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

CARBON MONOXIDE

- Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380

CARBON-CARBON COMPOSITES

- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N87-15464
- Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742

CARBONACEOUS MATERIALS

- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

CARBONATES

- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

CARBONIZATION

- Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

CARBONYL COMPOUNDS

- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575

CARBORANE

- Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carboranecyclophosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Carboranymethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

CARBOXYLIC GROUP

- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929

CARBOXYLIC ACIDS

- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
- Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

CARCINOGENS

- Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

CARDIAC VENTRICLES

- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

CARDIOGRAPHY

- Digital cardiographometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
- Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

CARDIOLOGY

- Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
- Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

CARDIOTACHOMETERS

- Digital computing cardiographometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

CARDIOVASCULAR SYSTEM

- G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

CARGO

- Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

CARRIER FREQUENCIES

- Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
- Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
- Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
- Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

CARRIER LIFETIME

- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

CARRIER WAVES

- Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

CARRIERS

- Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

CARTESIAN COORDINATES

- Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179

CARTRIDGES

- Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
- Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
- Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

CASCADE CONTROL

- Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
- Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
- Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

CASCADE FLOW

- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

CASE BONDED PROPELLANTS

- Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

CASES (CONTAINERS)

- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808

CASSEGRAIN ANTENNAS

- Cassegrain antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425

- Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-NPO-09832] c 30 N71-23723
- Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

CASTING

- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- High intensity casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N87-15327
- Pressure rig for repetitive casting
[NASA-CASE-LAR-13485-1] c 31 N87-29712

CASTINGS

- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

CATALYSIS

- Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374

CATALYSTS

- Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-1SB] c 25 N86-32540

CATALYTIC ACTIVITY

- Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

CATHETERIZATION

- Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

CATHODE RAY TUBES

- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
- Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
- Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
- CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
- Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
- Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

CATHODES

- Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
- Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832

CATIONS

- Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

CAVITATION FLOW

- Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615

CAVITIES

- Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-C-18606-1] c 32 N82-11336
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

CAVITY RESONATORS

- Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MS-C-12259-1] c 07 N70-12616
- Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
- Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MS-C-12259-2] c 07 N72-33146
- Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
- Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

CELESTIAL BODIES

- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MS-C-12593-1] c 17 N76-21250

CELESTIAL NAVIGATION

- Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

CELL ANODES

- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034

- Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581

CELL DIVISION

- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

CELLS

- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

CELLS (BIOLOGY)

- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

CELLULOSE

- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

CELLULOSE NITRATE

- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

CENTERBODIES

- A multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N87-25320

CENTRAL PROCESSING UNITS

- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

CENTRIFUGAL COMPRESSORS

- Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081

CENTRIFUGAL FORCE

- Counter pumping debris excluder and separator --- gas, turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

CENTRIFUGES

- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

CERAMIC BONDING

- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N87-15464

CERAMIC COATINGS

- Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
- Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
- Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Two-component ceramic coating for silica insulation
[NASA-CASE-MS-C-14270-1] c 27 N76-22377
- Three-component ceramic coating for silica insulation
[NASA-CASE-MS-C-14270-2] c 27 N76-23426
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
- Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N87-14442

CERAMIC HONEYCOMBS

- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

CERAMIC MATRIX COMPOSITES

- Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N87-27810
- Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656

CERAMIC NUCLEAR FUELS

- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729

CERAMICS

- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
- Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
- Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
- Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MS-C-12619-2] c 27 N79-12221
- High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N87-10205
- Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N87-27810

CEREBROSPINAL FLUID

- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

CERMETS

- Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
- Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

CESIUM

- Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
- Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 136 citations published in this issue of the Abstract Section cover the period July 1987 through December 1987. The Index Section references over 4700 citations covering the period May 1969 through December 1987.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue incorporates the 1987 *STAR* category revisions which include 10 major subdivisions divided into 76 specific categories and one general category/division. (See Table of Contents for the scope note of each category under which are grouped appropriate NASA inventions.) This new scheme was devised in 1975 and revised in 1987 in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and a key illustration taken from the patent or application for patent drawing. Entries are arranged in subject category in order of the ascending NASA Accession Number originally assigned to *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

- NASA Accession Number
- NASA Case Number
- Inventor's Name
- Title of Invention
- U.S. Patent Application Serial Number
- U.S. Patent Number (for issued patents only)
- U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (i) use the Subject Category Number to locate the Subject Category and (ii) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (does not include applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

TYPICAL CITATION AND ABSTRACT

ON MICROFICHE

NASA SPONSORED

ACCESSION NUMBER → N87-15253*# National Aeronautics and Space Administration.
Ames Research Center, Moffett Field, Calif.

CORPORATE SOURCE

TITLE → **WEIGHTLESSNESS SIMULATION SYSTEM AND PROCESS**
Patent Application

INVENTORS → HUBERT C. VYKUKAL, inventor (to NASA) 29 Oct. 1986 14 p

NASA CASE NUMBER → (NASA-CASE-ARC-11646-1; NAS 1.71:ARC-11646-1;

PRICE CODE

US PATENT APPLICATIONS → US-PATENT-APPL-SN-924398) Avail: NTIS HC A02/MF A01

AVAILABILITY SOURCE

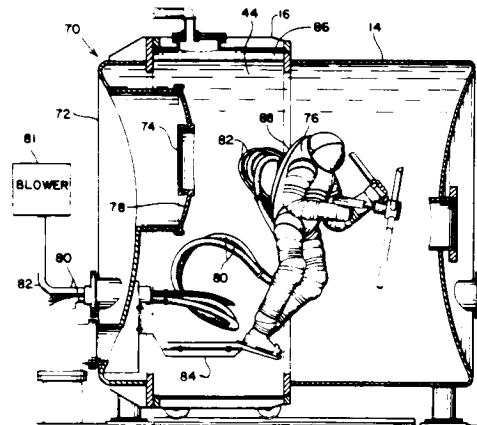
SERIAL NUMBER → CSCL 14B

COSATI CODE

A weightlessness simulator has a chamber and a suit in the chamber. O-rings and valves hermetically seal the chamber. A vacuum pump connected to the chamber establishes a pressure in the chamber less than atmospheric pressure. A water supply tank and water supply line supply a body of water to the chamber as a result of partial vacuum created in the chamber. In use, an astronaut enters the pressure suit through a port, which remains open to ambient atmosphere, thus supplying air to the astronaut during use. The pressure less than atmospheric pressure in the chamber is chosen so that the pressure differential from the inside to the outside of the suit corresponds to the pressure differential with the suit in outer space.

NASA

ABSTRACT



KEY ILLUSTRATION

Subject Categories

(1969 – 1973)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft (e.g., ground effect machines, STOL, and VTOL); flight tests; operating problems (e.g., sonic boom); safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences

Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology

Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry

Includes chemical analysis and identification (e.g., spectroscopy). For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications

Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers

Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment

Includes electronic test equipment and maintainability; component parts, e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications and 21 Navigation.

10 Electronics

Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support

Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities (e.g., rocket engine test stands, shock tubes, and wind tunnels); test ranges; and tracking stations.

12 Fluid Mechanics

Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics

Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gages; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers

Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic

Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic

Includes corrosion; physical and mechanical properties of materials (e.g., plastics); and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

NASA

**PATENT
ABSTRACTS
BIBLIOGRAPHY**

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

Indexes for the annotated references to NASA-owned inventions covered by U.S. patents and applications for patent that were announced in *Scientific and Technical Aerospace Reports (STAR)* between May 1969 and December 1987. This issue supersedes all previous Index Sections



Scientific and Technical Information Division 1988
National Aeronautics and Space Administration
Washington, DC

This supplement is available from the National Technical Information Service (NTIS), Springfield, Virginia 22161, price code A22.

CESIUM DIODES

- Thermionic tantalum emitter doped with oxygen Patent
Application
[NASA-CASE-NPO-11138] c 03 N70-34646
- Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

CESIUM ENGINES

- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-LEW-00455] c 28 N70-38197

CESIUM VAPOR

- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524

CHALCOGENIDES

- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

CHAMBERS

- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

CHANNEL FLOW

- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

CHANNELS (DATA TRANSMISSION)

- Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
- Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- Trellis coded modulation for transmission over fading mobile-satellite channel
[NASA-CASE-NPO-16904-1-CU] c 32 N87-18691

CHARACTER RECOGNITION

- Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
- System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

CHARGE COUPLED DEVICES

- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

CHARGE DISTRIBUTION

- Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

CHARGE EFFICIENCY

- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

CHARGE EXCHANGE

- Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148

CHARGE TRANSFER

- Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
- Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

CHARGE TRANSFER DEVICES

- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
- Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416

CHARGED PARTICLES

- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
- Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
- Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

CHARGING

- Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020

CHARRING

- Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
- Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586

CHASSIS

- Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

CHECKOUT

- Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
- Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

CHELATES

- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

CHEMICAL ANALYSIS

- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

CHEMICAL AUXILIARY POWER UNITS

- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

CHEMICAL BONDS

- Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

CHEMICAL COMPOSITION

- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516

CHEMICAL COMPOUNDS

- Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

CHEMICAL ELEMENTS

- Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

CHEMICAL ENGINEERING

- Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CHEMICAL EXPLOSIONS

- Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

CHEMICAL INDICATORS

- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

CHEMICAL MACHINING

- Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033

CHEMICAL PROPERTIES

- Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

CHEMICAL REACTIONS

- Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4,5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
- Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
- Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
- High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
- Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
- Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
- Trialkyl-dihaloantimony and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
- Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
- Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
- Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- Process for producing tris (n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
- The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

CHEMICAL REACTORS

- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
- Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589

CHEMICAL TESTS

- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039

CHEMILUMINESCENCE

- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

CHEMISORPTION

- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N86-27467

CHEMOTHERAPY

- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

CHIPS (ELECTRONICS)

- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441

CHIRP SIGNALS

- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

CHLORIDES

- The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

CHLORINATION

- Specialized halogen generator for purification of water
[NASA-CASE-XLA-08913] c 14 N71-28933
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

CHLORINE

- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

CHLOROPRENE RESINS

- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814

CHOKES

- Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

CHOKES (RESTRICTIONS)

- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

CHOLESTEROL

- Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

CHROMATOGRAPHY

- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

CHROMIUM

- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

CHROMIUM ALLOYS

- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

CHROMIUM COMPOUNDS

- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

CHROMOSOMES

- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

CINEMATOGRAPHY

- High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
- Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

CIRCUIT BOARDS

- Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
- Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
- Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
- Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
- Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604

- Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
- Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
- Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

CIRCUIT BREAKERS

- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
- Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
- Detenting servomotor Patent
[NASA-CASE-NPO-06936] c 15 N71-24695
- Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
- Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
- Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

CIRCUIT DIAGRAMS

- Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
- Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
- Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
- Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
- High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
- Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
- Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
- Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
- Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
- Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
- Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
- Treleode capacitor pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
- Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

CIRCUIT PROTECTION

- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
- Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
- Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
- Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
- Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
- Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
- Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
- Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129

- Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
- Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
- CIRCUIT RELIABILITY**
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
- Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
- CIRCUITS**
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
- Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
- Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
- Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
- Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
- Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
- Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
- Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
- Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
- Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
- Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
- Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
- Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
- Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
- Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
- Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
- Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
- High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N87-25335
- Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
- CIRCULAR CONES**
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
- CIRCULAR CYLINDERS**
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- CIRCULAR POLARIZATION**
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
- Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
- Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
- CIRCULAR TUBES**
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- CIRCULATION CONTROL AIRFOILS**
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- CIRCULATORS (PHASE SHIFT CIRCUITS)**
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- CLADDING**
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
- CLAMPING CIRCUITS**
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
- CLAMPS**
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
- Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
- Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
- CLAYS**
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
- CLEAN ROOMS**
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
- CLEANERS**
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
- Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390
- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
- CLEANING**
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
- CLEAR AIR TURBULENCE**
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
- CLEARANCES**
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- CLEAVAGE**
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
- CLIMBING FLIGHT**
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- CLINICAL MEDICINE**
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
- Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
- CLIPS**
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
- CLOCKS**
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
- Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
- Real-time simulation clock
[NASA-CASE-LAR-13615-1] c 35 N87-24682
- CLOSED CIRCUIT TELEVISION**
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
- CLOSED CYCLES**
Closed loop ranging system Patent
[NASA-CASE-NPO-01501] c 21 N70-41930
- Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- CLOSED ECOLOGICAL SYSTEMS**
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
- Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
- Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
- Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
- CLOSTRIDIUM BOTULINUM**
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- CLOSURES**
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

CLOUD CHAMBERS

CLOUD CHAMBERS

Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

CLOUD COVER

Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

CLOUDS (METEOROLOGY)

Rocket borne instrument to measure electric fields inside electrified clouds

[NASA-CASE-KSC-10730-1] c 14 N73-32318

Electric field measuring and display system --- for cloud formations

[NASA-CASE-KSC-10731-1] c 33 N74-27862

CLUTCHES

Directional gear ratio transmissions

[NASA-CASE-LAR-12644-1] c 37 N84-28084

Non-backdrivable free wheeling coupling

[NASA-CASE-MSC-20475-1] c 37 N87-17037

Rotary stepping device with memory metal actuator

[NASA-CASE-NPO-15482-1] c 37 N87-23970

Helicopter having a disengageable tail rotor

[NASA-CASE-LAR-13609-1] c 05 N87-24460

CLUTTER

Clutter free synthetic aperture radar correlator

[NASA-CASE-NPO-14035-1] c 32 N83-19968

Method and apparatus for measuring distance

[NASA-CASE-MSC-20912-1] c 32 N86-24879

CMOS

Complementary DMOS-VMOS integrated circuit structure

[NASA-CASE-GSC-12190-1] c 33 N79-12321

COAL

Coal-shale interface detection

[NASA-CASE-MFS-23720-3] c 43 N79-25443

Thickness measurement system

[NASA-CASE-MFS-23721-1] c 31 N79-28370

Coal-rock interface detector

[NASA-CASE-MFS-23725-1] c 43 N79-31706

Coal-shale interface detection system

[NASA-CASE-MFS-23720-2] c 43 N80-14423

Coal-shale interface detector

[NASA-CASE-MFS-23720-1] c 43 N80-23711

Coal desulfurization --- using iron pentacarbonyl

[NASA-CASE-NPO-14272-1] c 25 N81-33246

Coal desulfurization by aqueous chlorination

[NASA-CASE-NPO-14902-1] c 25 N82-29371

Hydrodesulfurization of chlorinated coal

[NASA-CASE-NPO-15304-1] c 25 N83-31743

Supercritical multicomponent solvent coal extraction

[NASA-CASE-NPO-15767-1] c 23 N84-16255

Supercritical solvent coal extraction

[NASA-CASE-NPO-15210-1] c 25 N84-22709

Longwall shearer tracking system

[NASA-CASE-MFS-25717-1] c 35 N84-33768

Shuttle car loading system

[NASA-CASE-NPO-15949-1] c 85 N85-34722

Fluidized bed desulfurization

[NASA-CASE-NPO-15924-1] c 25 N85-35253

COAL GASIFICATION

Solar heated fluidized bed gasification system

[NASA-CASE-NPO-15071-1] c 44 N82-16475

Pressure letdown method and device for coal conversion systems

[NASA-CASE-NPO-15100-1] c 44 N84-14583

Micronized coal burner facility

[NASA-CASE-LEW-13426-1] c 25 N84-16276

Liquid hydrogen polygeneration system and process

[NASA-CASE-KSC-11304-2] c 28 N86-23744

COAL LIQUEFACTION

Surfactant-assisted liquefaction of particulate carbonaceous substances

[NASA-CASE-NPO-13904-1] c 25 N79-11152

COAL UTILIZATION

Coal desulfurization process

[NASA-CASE-NPO-13937-1] c 44 N78-31527

Continuous coal processing method

[NASA-CASE-NPO-13758-2] c 31 N81-15154

Fluidized bed coal combustion reactor

[NASA-CASE-NPO-14273-1] c 25 N82-11144

COATING

Method of coating circuit paths on printed circuit boards with solder Patent

[NASA-CASE-XMF-01599] c 09 N71-20705

Process for applying black coating to metals Patent

[NASA-CASE-XLA-06199] c 15 N71-24875

Method of forming metal hydride films

[NASA-CASE-LEW-12083-1] c 37 N78-13436

Selective coating for solar panels --- using black chrome and black nickel

[NASA-CASE-LEW-12159-1] c 44 N78-19599

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge

[NASA-CASE-ARC-11057-1] c 27 N78-31233

Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses

[NASA-CASE-ARC-11039-1] c 74 N78-32854

Contactless pellet fabrication

[NASA-CASE-NPO-15592-1] c 71 N84-16940

Corrosion resistant coating

[NASA-CASE-NPO-15928-1] c 26 N85-29005

Textured carbon surfaces on copper by sputtering

[NASA-CASE-LEW-14130-1] c 31 N86-32587

COATINGS

Bonded solid lubricant coating Patent

[NASA-CASE-XMS-00259] c 18 N70-36400

High contrast cathode ray tube

[NASA-CASE-ERC-10468] c 09 N72-20206

Durable antistatic coating for polymethylmethacrylate

[NASA-CASE-NPO-13867-1] c 27 N78-14164

Edge coating of flat wires

[NASA-CASE-XMF-05757-1] c 31 N79-21227

Advanced inorganic separators for alkaline batteries and method of making the same

[NASA-CASE-LEW-13171-2] c 44 N83-32176

Diamondlike flake composites

[NASA-CASE-LEW-13837-1] c 24 N84-22695

Diamondlike flakes

[NASA-CASE-LEW-13837-2] c 24 N85-21267

Method for laminar boundary layer transition visualization in flight

[NASA-CASE-LAR-13554-1] c 02 N87-18535

COAXIAL CABLES

Transmission line thermal short Patent

[NASA-CASE-XNP-09775] c 09 N71-20445

Coaxial cable connector Patent

[NASA-CASE-XNP-04732] c 09 N71-20851

Transducer circuit and catheter transducer Patent

[NASA-CASE-ARC-10132-1] c 09 N71-24597

Collapsible antenna boom and transmission line Patent

[NASA-CASE-MFS-20068] c 07 N71-27191

Vibration isolation system using compression springs

[NASA-CASE-NPO-11012] c 15 N72-11391

Hermetically sealed semiconductor

[NASA-CASE-GSC-10791-1] c 15 N73-14469

System for stabilizing cable phase delay utilizing a coaxial cable under pressure

[NASA-CASE-NPO-13138-1] c 33 N74-17927

Refrigerated coaxial coupling --- for microwave equipment

[NASA-CASE-NPO-13504-1] c 33 N75-30430

High power RF coaxial switch

[NASA-CASE-NPO-14229-1] c 33 N80-18285

Coaxial tube tether/transmission line for manned nuclear space power

[NASA-CASE-LEW-14338-1] c 20 N87-10174

Coaxial cable connector

[NASA-CASE-NPO-16964-1CU] c 33 N87-15414

COAXIAL PLASMA ACCELERATORS

Self-energized plasma compressor

[NASA-CASE-MFS-22145-2] c 75 N76-17951

COBALT

Process for improving mechanical properties of epoxy resins by addition of cobalt ions

[NASA-CASE-LAR-12301-1] c 24 N84-34571

Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins

[NASA-CASE-ARC-11424-1] c 27 N85-34281

COBALT ALLOYS

High temperature cobalt-base alloy Patent

[NASA-CASE-XLE-00726] c 17 N71-15644

High temperature cobalt-base alloy Patent

[NASA-CASE-XLE-02991] c 17 N71-16025

High temperature ferromagnetic cobalt-base alloy Patent

[NASA-CASE-XLE-03629] c 17 N71-23248

Cobalt-base alloy

[NASA-CASE-LEW-10436-1] c 17 N73-32415

COBALT OXIDES

High contrast cathode ray tube

[NASA-CASE-ERC-10468] c 09 N72-20206

COCKPIT SIMULATORS

Controlled visibility device for an aircraft Patent

[NASA-CASE-XFR-04147] c 11 N71-10748

COCKPITS

Aircraft canopy lock

[NASA-CASE-FRC-11065-1] c 05 N83-19737

CODERS

Encoder/decoder system for a rapidly synchronizable binary code Patent

[NASA-CASE-NPO-10342] c 10 N71-33407

Modular encoder

[NASA-CASE-NPO-10629] c 08 N72-18184

Method and apparatus for decoding compatible convolutional codes

[NASA-CASE-MSC-14070-1] c 32 N74-32598

Digital plus analog output encoder

[NASA-CASE-GSC-12115-1] c 62 N76-31946

Twin-capacitive shaft angle encoder with analog output signal

[NASA-CASE-ARC-10897-1] c 33 N77-31404

CODING

Error correcting method and apparatus Patent

[NASA-CASE-XNP-02748] c 08 N71-22749

Rate data encoder

[NASA-CASE-LAR-10128-1] c 08 N73-20217

Binary concatenated coding system

[NASA-CASE-MSC-14082-1] c 60 N76-23850

Differential pulse code modulation

[NASA-CASE-MSC-12506-1] c 32 N77-12239

Automatic multi-banking of memory for microprocessors

[NASA-CASE-NPO-15295-1] c 60 N85-21992

COEFFICIENT OF FRICTION

Static coefficient test method and apparatus

[NASA-CASE-GSC-11893-1] c 35 N76-31489

Locking redundant link

[NASA-CASE-LAR-11900-1] c 37 N79-14382

COENZYMES

Flavin coenzyme assay

[NASA-CASE-GSC-10565-1] c 06 N72-25149

COHERENT ELECTROMAGNETIC RADIATION

Folded traveling wave maser structure Patent

[NASA-CASE-XNP-05219] c 16 N71-15550

Focused image holography with extended sources Patent

[NASA-CASE-ERC-10019] c 16 N71-15551

Off-axis coherently pumped laser

[NASA-CASE-GSC-12592-1] c 36 N84-28065

COHERENT LIGHT

Hybrid holographic system using reflected and transmitted object beams simultaneously Patent

[NASA-CASE-MFS-20074] c 16 N71-15565

Amplitude modulated laser transmitter Patent

[NASA-CASE-XMS-04269] c 16 N71-22895

Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent

[NASA-CASE-XER-11203] c 14 N71-28994

COHERENT RADIATION

Laser communication system for controlling several functions at a location remote to the laser

[NASA-CASE-LAR-10311-1] c 16 N73-16536

Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver

[NASA-CASE-NPO-11919-1] c 35 N74-11284

Apparatus for scanning the surface of a cylindrical body

[NASA-CASE-NPO-11861-1] c 36 N74-20009

Optically detonated explosive device

[NASA-CASE-NPO-11743-1] c 28 N74-27425

Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback

[NASA-CASE-NPO-13346-1] c 36 N76-29575

Coherently pulsed laser source

[NASA-CASE-NPO-15111-1] c 36 N82-29589

COINCIDENCE CIRCUITS

Frequency measurement by coincidence detection with standard frequency

[NASA-CASE-MSC-14649-1] c 33 N76-16331

COLD CATHODES

Meteoroid detector

[NASA-CASE-LAR-10483-1] c 14 N73-32327

COLD GAS

Annular arc accelerator shock tube

[NASA-CASE-NPO-13528-1] c 09 N77-10071

COLD WELDING

Method of cold welding using ion beam technology

[NASA-CASE-LEW-12982-1] c 37 N81-19455

COLD WORKING

Hydroforming techniques using epoxy molds Patent

[NASA-CASE-XLE-05641-1] c 15 N71-26346

COLLAPSE

Collapsible pistons

[NASA-CASE-MSC-13789-1] c 11 N73-32152

COLLECTION

Automatic liquid inventory collecting and dispensing unit

[NASA-CASE-LAR-11071-1] c 35 N75-19611

Absorbent product to absorb fluids --- for collection of human wastes

[

- Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
An ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N87-25829
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- COLLIMATORS**
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Multiple focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- COLLISION AVOIDANCE**
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
- COLLOIDAL GENERATORS**
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- COLLOIDAL PROPELLANTS**
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- COLLOIDS**
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- COLOR**
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N87-18535
- COLOR PHOTOGRAPHY**
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- COLOR TELEVISION**
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- COLOR VISION**
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- COLUMNS**
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- COLUMNS (PROCESS ENGINEERING)**
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- COLUMNS (SUPPORTS)**
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
- COMBINATORIAL ANALYSIS**
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- COMBUSTION**
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- COMBUSTION CHAMBERS**
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
- COMBUSTION CONTROL**
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
- COMBUSTION EFFICIENCY**
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- COMBUSTION PHYSICS**
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- COMBUSTION PRODUCTS**
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- COMBUSTION STABILITY**
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
- COMET TAILS**
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- COMFORT**
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- COMMAND AND CONTROL**
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
- COMMAND MODULES**
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
- COMMUNICATING**
Communications link for computers
[NASA-CASE-NPO-11181] c 08 N72-25207
- COMMUNICATION**
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
- COMMUNICATION CABLES**
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- COMMUNICATION EQUIPMENT**
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
- COMMUNICATION SATELLITES**
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

COMMUTATION

- High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

COMMUTATORS

- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199

COMPARATOR CIRCUITS

- Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

COMPARATORS

- Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235

COMPENSATORS

- Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

COMPLEX COMPOUNDS

- Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

COMPONENT RELIABILITY

- Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1CU] c 71 N87-21652

COMPOSITE MATERIALS

- Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Non-flammable elastomeric fiber from a fluorinated elastomer and containing a halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals

- [NASA-CASE-MFS-22926-1] c 24 N77-27187
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N87-27810

COMPOSITE PROPELLANTS

- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

COMPOSITE STRUCTURES

- Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258

- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N87-15464
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

COMPOSITION (PROPERTY)

- Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

COMPRESSED AIR

- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409

COMPRESSIBILITY

- Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

COMPRESSIBLE FLUIDS

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600

COMPRESSING

- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

COMPRESSION LOADS

- Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737

COMPRESSION RATIO

- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

COMPRESSION TESTS

- Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
Bearing bypass material testing system
[NASA-CASE-LAR-13458-1] c 35 N87-25556

COMPRESSIVE STRENGTH

- Truss-core corrugation for compression loads
[NASA-CASE-LAR-13438-1] c 31 N87-25496

COMPRESSOR BLADES

- Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

COMPRESSOR ROTORS

- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

COMPRESSORS

- Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1CU] c 31 N86-27467

COMPUTATION

- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

COMPUTER COMPONENTS

- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897

- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
- Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
- Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
- Convolver
[NASA-CASE-NPO-16462-1CU] c 60 N86-24225
- COMPUTER DESIGN**
- Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
- Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
- COMPUTER GRAPHICS**
- System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
- COMPUTER NETWORKS**
- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
- Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
- Real-time simulation clock
[NASA-CASE-LAR-13615-1] c 35 N87-24682
- COMPUTER PROGRAMMING**
- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
- COMPUTER PROGRAMS**
- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
- Local area network with fault-checking, priorities and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N87-19021
- COMPUTER STORAGE DEVICES**
- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
- Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
- Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
- Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
- Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
- Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
- Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
- Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
- COMPUTER SYSTEMS DESIGN**
- Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
- Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
- Local area network with fault-checking, priorities and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N87-19021
- COMPUTER TECHNIQUES**
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- COMPUTERIZED SIMULATION**
- Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
- Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
- Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Real-time simulation clock
[NASA-CASE-LAR-13615-1] c 35 N87-24682
- COMPUTERS**
- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
- Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- CONCAVITY**
- Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
- CONCENTRATORS**
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
- Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- CONCENTRIC CYLINDERS**
- Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
- CONCENTRIC SPHERES**
- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
- CONDENSATES**
- Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
- Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
- CONDENSERS (LIQUEFIERS)**
- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
- Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
- CONDENSING**
- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- CONDUCTING FLUIDS**
- Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- CONDUCTIVE HEAT TRANSFER**
- Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
- Compact pulsed laser having improved heat conduction
[NASA-CASE-NPO-13147-1] c 36 N77-25502
- Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
- CONDUCTORS**
- Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
- Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
- CONES**
- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- CONFIGURATION MANAGEMENT**
- Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1SB] c 54 N86-22114
- CONFINEMENT**
- Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
- CONICAL BODIES**
- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
- Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
- Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
- CONICAL SCANNING**
- Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
- CONICAL SHELLS**
- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
- Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
- Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
- CONJUGATES**
- Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
- CONNECTORS**
- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
- Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
- Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
- Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
- Collect lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N87-25576
- CONSCIOUSNESS**
- EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
- CONSISTENCY**
- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- CONSOLES**
- Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- CONSTANTS**
- Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
- CONSTRAINTS**
- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
- Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677

- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- CONSTRUCTION MATERIALS**
- Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
- Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
- Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
- CONTACT POTENTIALS**
- Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
- CONTAINERLESS MELTS**
- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
- Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
- Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
- Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
- CONTAINERS**
- Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
- Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
- CONTAINMENT**
- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- CONTAMINANTS**
- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- CONTAMINATION**
- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
- Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
- CONTINUOUS RADIATION**
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
- Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
- CONTINUOUS WAVE LASERS**
- High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
- Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
- Stark effect spectrophotometer for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- Spectrophotometer stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
- CONTINUOUS WAVE RADAR**
- Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
- FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
- Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N86-24879

CONTOURS

- Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
- Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
- Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- CONTROL**
- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
- Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
- Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
- A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N87-29737
- CONTROL BOARDS**
- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- CONTROL DATA (COMPUTERS)**
- Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
- CONTROL EQUIPMENT**
- Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
- Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- Controlled release device Patent
[NASA-CASE-KKS-03338] c 15 N71-24043
- Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
- Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
- System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
- Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
- Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
- Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10758-1] c 54 N77-32721
- Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913

- Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
- Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
- Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
- Auxiliary data input device
[NASA-CASE-LAR-13626-1] c 37 N87-25584
- CONTROL ROCKETS**
- Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- CONTROL RODS**
- Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
- CONTROL SIMULATION**
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- CONTROL STABILITY**
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
- CONTROL SURFACES**
- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
- Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- Improved control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N87-24461
- Dorsal fin for earth-to-orbit transports
[NASA-CASE-LAR-13127-1] c 18 N87-24524
- CONTROL SYSTEMS DESIGN**
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- CONTROL UNITS (COMPUTERS)**
- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- CONTROL VALVES**
- Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
- Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
- Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
- Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
- Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
- Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
- Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433

Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867

CONTROLLED ATMOSPHERES

Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737

High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

CONTROLLERS

Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279

Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073

Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942

Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340

Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719

Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1SB] c 54 N86-22114

Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

CONVECTION

Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

CONVECTIVE FLOW

Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486

Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

CONVECTIVE HEAT TRANSFER

Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095

CONVERGENCE

Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

CONVERGENT NOZZLES

Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

CONVERGENT-DIVERGENT NOZZLES

Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162

Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

CONVERSION

Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

CONVERTERS

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

CONVEYORS

System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

CONVOLUTION INTEGRALS

Convolver
[NASA-CASE-NPO-16462-1CU] c 60 N86-24225

COOLANTS

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

COOLING

Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486

Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Compact pulsed laser having improved heat conduction
[NASA-CASE-NPO-13147-1] c 36 N77-25502

Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628

Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568

Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N87-29799

COOLING SYSTEMS

Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807

Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654

Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052

Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053

Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152

Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948

Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430

Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191

Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353

Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

Multistage refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288

Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519

Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114

Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085

Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903

Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867

Capillary heat transport and fluid management device --- spacecraft thermal control
[NASA-CASE-MFS-28217-1] c 34 N87-29769

COORDINATES

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

COPOLYMERIZATION

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885

Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N86-26435

Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304

COPOLYMERS

Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905

Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N86-26435

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

COPPER

Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044

Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903

Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469

Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COPPER ALLOYS

- Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- COPPER COMPOUNDS**
- Simple method of making photovoltaic junctions
Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- COPPER FLUORIDES**
- Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
- COPPER OXIDES**
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- CORDAGE**
- Method of forming a root cord restrained convolute section
[NASA-CASE-MS-12398] c 05 N72-20098
- CORE STORAGE**
- Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
- CORES**
- Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- CORK (MATERIALS)**
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- CORRECTION**
- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
- CORRELATION**
- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
- CORRELATION DETECTION**
- Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
- CORRELATORS**
- Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
- CORROSION**
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- CORROSION PREVENTION**
- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
- Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

CORROSION RESISTANCE

- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
- Solder flux which leaves corrosion-resistant coating
Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- CORRUGATED PLATES**
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Truss-core corrugation for compression loads
[NASA-CASE-LAR-13438-1] c 31 N87-25496
- CORRUGATING**
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- COSINE SERIES**
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- COSMIC DUST**
- Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
- COST ANALYSIS**
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- COST EFFECTIVENESS**
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- COUCHES**
- Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
- Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
- COULOMETERS**
- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- COUNTERBALANCES**
- Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
- COUNTERS**
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628

- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- COUNTING CIRCUITS**
- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
- Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
- Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
- Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
- Digital cardiachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
- Counter and shift register Patent
[NASA-CASE-NXP-01753] c 08 N71-22897
- Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
- Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MS-14649-1] c 33 N76-16331
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- COUPLING**
- Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
- Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- COUPLING CIRCUITS**
- Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
- COUPLINGS**
- Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
- Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
- Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
- Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
- Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
- Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398

- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
- Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
- Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- COVARIANCE**
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- COVERINGS**
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- COWLINGS**
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- CRACKING (FRACTURING)**
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- CRACKS**
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
- CRANES**
Space spider crane
[NASA-CASE-LAR-13411-1SB] c 18 N87-15259
- CRASH LANDING**
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
- CRASHWORTHINESS**
Integrally-stiffened crash energy-absorbing subfloor beam structure
[NASA-CASE-LAR-13697-1] c 05 N87-25321
- CREEP RUPTURE STRENGTH**
Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- CREEP TESTS**
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
- CRITICAL EXPERIMENTS**
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- CRITICAL TEMPERATURE**
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
- CROSS CORRELATION**
Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
- Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- CROSS FLOW**
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N87-23587
- CROSS POLARIZATION**
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
- CROSSED FIELDS**
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
- CROSSLINKING**
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N86-24840
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N86-26435
- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
- CRUCIBLES**
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
- CRUCIFORM WINGS**
Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
- CRUDE OIL**
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
- Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
- CRUSTAL FRACTURES**
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
- CRYOGENIC COOLING**
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N86-27467
- CRYOGENIC EQUIPMENT**
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
- Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
- Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
- Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
- Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
- Multistage refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
- Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
- CRYOGENIC FLUID STORAGE**
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
- Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
- Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
- Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
- Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
- Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
- Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
- Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
- Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
- Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N87-25478
- CRYOGENIC FLUIDS**
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
- Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
- Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212

- Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
- Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
- Geysing inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
- Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
- Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
- Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N87-25583

CRYOGENIC GYROSCOPES

- Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323

CRYOGENIC MAGNETS

- Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890

CRYOGENIC ROCKET PROPELLANTS

- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042

CRYOGENIC STORAGE

- Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
- Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816

CRYOGENIC WIND TUNNELS

- Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

CRYOGENICS

- Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258

CRYOLITE

- Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332

CRYOSTATS

- Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
- Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287

CRYOTRAPPING

- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

CRYSTAL DEFECTS

- Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882

CRYSTAL FILTERS

- Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
- Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891

CRYSTAL GROWTH

- Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
- Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466

- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043

- Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919

- Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359

- Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920

- Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741

- Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244

- Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245

- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389

- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789

- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113

- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

- Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

- Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N87-15004

- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882

- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N87-19116

- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286

- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868

- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

CRYSTAL LATTICES

- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950

CRYSTAL OPTICS

- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071

CRYSTAL OSCILLATORS

- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701

- Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

- Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

CRYSTAL RECTIFIERS

- Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

CRYSTAL STRUCTURE

- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187

CRYSTALLINITY

- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158

- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882

- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474

CRYSTALLIZATION

- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919

- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286

CRYSTALS

- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

- Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951

- Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

- Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

CUBIC LATTICES

- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

CUES

- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

CUFFS

- Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

CULTURE TECHNIQUES

- Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284

- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

- Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330

- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073

- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

- Enhancement of in vitro guanylate propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

CURIE TEMPERATURE

- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

CURING

- Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260

- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215

- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260

- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213

- Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885

- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350

- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351

- Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982

- Metal (2,4,4',4'': phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675

Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N86-32570

Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304

Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N87-25473

CURRENT AMPLIFIERS
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474

Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453

CURRENT DENSITY
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500

Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

CURRENT DISTRIBUTION
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470

Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864

CURRENT REGULATORS
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318

Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991

Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694

Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316

Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800

Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212

Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257

Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

CURVATURE
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723

Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488

CURVE FITTING
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578

CURVED PANELS

Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273

Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836

Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

CUSHIONS
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

CUTTERS

Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798

Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485

Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703

Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

CUTTING

Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478

Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

CYANATES

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

CYCLES

Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469

Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167

CYCLIC ACCELERATORS

Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458

CYCLIC COMPOUNDS

Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

Aminophenoxy cyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

CYCLIC HYDROCARBONS

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

CYCLIC LOADS

Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877

Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476

Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

CYCLOTRON RADIATION

Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

CYCLOTRON RESONANCE

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

CYCLOTRON RESONANCE DEVICES

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

CYLINDRICAL ANTENNAS

Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

CYLINDRICAL BODIES

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009

Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

CYLINDRICAL CHAMBERS

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

CYLINDRICAL SHELLS

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

CYSTS

Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751

CZOCHEWSKI METHOD

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

D**DAMAGE**

Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

DAMPERS (VALVES)

Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

DAMPING

Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997

Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694

Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

DATA ACQUISITION

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125

Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090

Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

DATA COLLECTION PLATFORMS

Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007

DATA COMPRESSION

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

DATA CONVERTERS

Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Electronic analog divider
[NASA-CASE-LEW-11861-1] c 33 N77-17354
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DATA CORRELATION

Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

DATA LINKS

Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

DATA MANAGEMENT

Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

DATA PROCESSING

Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MS-C-16253-1] c 32 N79-20297
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
LDV multiplexer interface
[NASA-CASE-ARC-11536-1] c 33 N85-30202
Real-time garbage collection for list processing
[NASA-CASE-MS-C-20964-1] c 60 N87-14863
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MS-C-20187-1] c 33 N87-25531

DATA PROCESSING EQUIPMENT

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110

Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MS-C-20258-1] c 60 N84-28492
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Convolver
[NASA-CASE-NPO-16462-1CU] c 60 N86-24225

DATA RECORDERS

Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

DATA RECORDING

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
On-film optical recording of camera lens settings
[NASA-CASE-MS-C-12363-1] c 14 N73-26431
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

DATA REDUCTION

Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172

DATA RETRIEVAL

Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

DATA SAMPLING

Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-NPO-02791] c 07 N71-23026
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

DATA SMOOTHING

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

DATA STORAGE

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Data storage, image tube type
[NASA-CASE-MS-C-14053-1] c 60 N74-12888
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337

DATA STRUCTURES

Real-time garbage collection for list processing
[NASA-CASE-MS-C-20964-1] c 60 N87-14863

DATA SYSTEMS

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-C-14070-1] c 32 N74-32598

DATA TRANSFER (COMPUTERS)

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

DATA TRANSMISSION

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Data compression system with a minimum time delay unit Patent
[NASA-CASE-NXP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MS-C-20258-1] c 60 N84-28492
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

- Auxiliary data input device
[NASA-CASE-LAR-13626-1] c 37 N87-25584
- DAWSONITE**
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- DEBRIS**
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- DECAY RATES**
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
- DECELERATION**
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- DECIMALS**
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
- DECISION MAKING**
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-C-14070-1] c 32 N74-32598
- DECODERS**
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
BCD to decimal decoder Patent
[NASA-CASE-KSC-06167] c 08 N71-24890
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MS-C-14557-1] c 32 N76-16249
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
- DECODING**
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-C-14070-1] c 32 N74-32598
Differential pulse code modulation
[NASA-CASE-MS-C-12506-1] c 32 N77-12239
- DECOMMUTATORS**
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
- DECONTAMINATION**
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- DEEP SPACE NETWORK**
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
- DEFECTS**
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
- DEFLECTION**
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- DEFLECTORS**
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- DEFOCUSING**
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- DEFORMATION**
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-2] c 32 N72-25877
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- DEGASSING**
Degassing and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MS-C-18936-1] c 35 N83-29652
- DEGREES OF FREEDOM**
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- DEHUMIDIFICATION**
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
- DEHYDRATED FOOD**
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MS-C-13540-1] c 05 N72-33096
- DEHYDRATION**
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- DEICERS**
Piezoelectric deicing device
[NASA-CASE-GSC-13773-2] c 33 N86-20671
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
- DELAY CIRCUITS**
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Pseudonoise code tracking loop
[NASA-CASE-MS-C-18035-1] c 32 N81-15179
- DELAY LINES**
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
- DELTA MODULATION**
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MS-C-13855-1] c 35 N74-17885
- DELTA WINGS**
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
- DEMAGNETIZATION**
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
- DEMODULATION**
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- DEMODULATORS**
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MS-C-12165-1] c 07 N71-33696
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Unbalanced quadrature demodulator
[NASA-CASE-MS-C-14840-1] c 32 N77-24331
- Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Self-calibrating threshold detector
[NASA-CASE-MS-C-16370-1] c 35 N81-19427
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- DENDRITIC CRYSTALS**
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
- DENSIFICATION**
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-C-18737-1] c 24 N83-13171
- DENSITOMETERS**
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
- DENSITY (MASS/VOLUME)**
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
- DENSITY DISTRIBUTION**
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
- DENSITY MEASUREMENT**
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Determining particle density using known material Hugoniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
- DENTISTRY**
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- DEOXYGENATION**
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
- DEPLOYMENT**
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
- DEPOLARIZATION**
Depolarization measurement method and device
[NASA-CASE-LAR-13621-1] c 70 N87-25822
- DEPOSITION**
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

DEPOSITS

- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

DEPOSITS

- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

DEPTH MEASUREMENT

- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1CU] c 35 N86-32700

DESCENT

- Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

DESIGN ANALYSIS

- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

DESTRUCTIVE TESTS

- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

DESULFURIZING

- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

DETECTION

- Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

DETECTORS

- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

- Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

DETERGENTS

- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

DETONATION

- Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425

DETONATION WAVES

- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

DEUTERIUM

- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

DEW POINT

- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373

DIAGNOSIS

- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

DIAGNOSTIC

- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

DIALYSIS

- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

DIAMINES

- Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
Amine terminated bispartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24584

DIAMONDS

- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

DIAPHRAGMS (MECHANICS)

- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967

- Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981

DIATOMIC GASES

- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

DICHROISM

- Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416

DICKE RADIOMETERS

- Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

DIDYMIUM

- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

DIELECTRIC PROPERTIES

- Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192

DIELECTRICS

- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

DIELS-ALDER REACTIONS

- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

DIENES

- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

DIES

- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- DIESEL ENGINES**
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- DIETS**
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
- DIFFERENCES**
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- DIFFERENTIAL AMPLIFIERS**
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- DIFFERENTIAL INTERFEROMETRY**
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- DIFFERENTIAL PRESSURE**
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- DIFFERENTIATORS**
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
- DIFFRACTION**
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
- DIFFRACTION PATTERNS**
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
- DIFFRACTOMETERS**
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
- DIFFUSE RADIATION**
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- DIFFUSERS**
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- DIFFUSION**
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
- DIFFUSION PUMPS**
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
- DIFFUSION WELDING**
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- DIFFUSIVITY**
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
- DIGITAL COMMAND SYSTEMS**
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
- DIGITAL COMPUTERS**
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- DIGITAL DATA**
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-NPO-09453] c 08 N71-19420
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
- DIGITAL FILTERS**
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Frequency domain laser velocimeter signal
[NASA-CASE-LAR-13552-1-CU] c 33 N87-18761
- DIGITAL INTEGRATORS**
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
- DIGITAL RADAR SYSTEMS**
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- DIGITAL SPACECRAFT TELEVISION**
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
- DIGITAL SYSTEMS**
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
- DIGITAL TECHNIQUES**
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

DIGITAL TO ANALOG CONVERTERS

- Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
- Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
- Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
- Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
- Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

DIGITAL TO ANALOG CONVERTERS

- Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
- Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
- Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
- Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
- Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
- Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

DIGITAL TRANSDUCERS

- Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
- Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

DIISOCYANATES

- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- Polyurethanes from fluoroalkyl propylene glycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

DIMENSIONAL MEASUREMENT

- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

DIMENSIONS

- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

DIODES

- Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
- Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
- Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
- Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
- Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
- Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

DIPHENYL COMPOUNDS

- Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726

Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof

- [NASA-CASE-ARC-11548-1] c 27 N87-25469

DIPOLE ANTENNAS

- Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

DIRECT CURRENT

- Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
- Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
- A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
- Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
- Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
- Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
- Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
- A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
- Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
- Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476

- Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
- Arjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N87-25335

DIRECT LIFT CONTROLS

- Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106

DIRECT POWER GENERATORS

- Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610

- Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
- Unsaturation saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
- Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

DIRECTION FINDING

- Improved flux-gate magnetometer
[NASA-CASE-LAR-13560-1] c 35 N86-32701

DIRECTIONAL ANTENNAS

- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
- Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
- Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

DIRECTIONAL CONTROL

- Gimbale, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
- Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
- Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

DIRECTIONAL SOLIDIFICATION (CRYSTALS)

- Preparation of monolectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

DIRECTIONAL STABILITY

- Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
- System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275

DIRECTIVITY

- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

DISCONNECT DEVICES

- Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
- Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
- Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
- Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
- Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
- Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
- Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
- Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
- Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
- Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
- Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

DISCONTINUITY

Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360

DISCRIMINATORS

Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

DISPENSERS

Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466

DISPENSING

Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

DISPERSIONS

Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573

DISPLACEMENT

Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

DISPLACEMENT MEASUREMENT

Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Technique for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N87-25577

DISPLAY DEVICES

Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143

Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Aircraft liftemeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

DISSIPATION
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398

DISSOCIATION
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

DISSOLVING
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458

DISTANCE MEASURING EQUIPMENT
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

DISTILLATION EQUIPMENT
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

DISTRIBUTED AMPLIFIERS

Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

DISTRIBUTED PROCESSING

Distributed multipoint memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342

DISTRIBUTION (PROPERTY)

Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

DISTRIBUTORS

High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

DIVERGENT NOZZLES

Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

DIVERTERS

Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

DIVIDERS

A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

DOCUMENT STORAGE

File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908

DOMES (STRUCTURAL FORMS)

Airborne tracking Sun photometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N86-21982

DOORS

Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

DOPES

Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

DOPPLER EFFECT

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669

DOPPLER RADAR

Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820

DOSIMETERS

Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

DRAG CHUTES

Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147

DRAG MEASUREMENT

Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

DRAG REDUCTION
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

DRIFT (INSTRUMENTATION)

- Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
- Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
- Low-drag ground vehicle particularly suited for use in safety transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- Combined riblet and LEBU drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N85-28922
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
- DRIFT (INSTRUMENTATION)**
- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- DRILL BITS**
- Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
- Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
- DRILLING**
- Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
- Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
- DRILLS**
- Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
- Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
- DRIVES**
- Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
- DROP TOWERS**
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- DROPS (LIQUIDS)**
- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- DRUGS**
- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- DRYING**
- Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- DRYING APPARATUS**
- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- DUCTED FANS**
- Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- DUCTILITY**
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- DUCTS**
- Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
- DURABILITY**
- Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
- DUST COLLECTORS**
- Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- DYE LASERS**
- Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655

DYES

- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- DYNAMIC CHARACTERISTICS**
- Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- DYNAMIC CONTROL**
- Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- DYNAMIC LOADS**
- Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
- Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
- Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
- DYNAMIC MODULUS OF ELASTICITY**
- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- DYNAMIC RESPONSE**
- Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
- Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- DYNAMIC STRUCTURAL ANALYSIS**
- Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
- DYNAMIC TESTS**
- Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- DYNAMOMETERS**
- Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
- Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

E

EAR

- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
- EARPHONES**
- Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N87-25765
- EARTH ATMOSPHERE**
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- EARTH CRUST**
- Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
- EARTH IONOSPHERE**
- Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
- EARTH ORBITS**
- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- ECCENTRICS**
- Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- ECHELETTE GRATINGS**
- Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
- ECHO SOUNDING**
- Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1CU] c 35 N86-32700

ECHOES

- Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- EDDY CURRENTS**
- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- EDGES**
- Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
- EFFICIENCY**
- Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
- EFFLUENTS**
- Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
- Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
- EGRESS**
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- EJECTION**
- Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- EJECTION SEATS**
- Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
- EJECTORS**
- Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
- Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- ELASTIC BODIES**
- Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- ELASTIC DEFORMATION**
- Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
- ELASTIC MEDIA**
- Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
- ELASTIC PROPERTIES**
- Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- ELASTIC SHEETS**
- Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
- ELASTOMERS**
- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
- Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717

- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
- Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- Coaxial cable connector
[NASA-CASE-NPO-16964-1CU] c 33 N87-15414
- Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
- ELBOW (ANATOMY)**
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
- ELECTRIC ARCS**
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
- Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N87-25587
- ELECTRIC AUTOMOBILES**
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- ELECTRIC BATTERIES**
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
- Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
- Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- ELECTRIC BRIDGES**
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- ELECTRIC CELLS**
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- ELECTRIC CHARGE**
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
- Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
- ELECTRIC CHOPPERS**
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
- Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
- ELECTRIC COILS**
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
- ELECTRIC CONDUCTORS**
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
- Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
- Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
- Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
- Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
- ELECTRIC CONNECTORS**
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
- Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
- Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
- Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
- Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
- Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
- Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
- Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
- Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
- Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
- Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
- Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
- Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
- Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
- Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-XSC-11030-1] c 52 N77-25772
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- Coaxial cable connector
[NASA-CASE-NPO-16964-1CU] c 33 N87-15414
- Four-terminal electrical testing device --- initiator bridewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- ELECTRIC CONTACTS**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
- Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
- Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
- Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
- Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
- ELECTRIC CONTROL**
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

ELECTRIC CURRENT

- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
- Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
- Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
- Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
- High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
- Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
- Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
- Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
- Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
- Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
- Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
- Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
- Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
- ELECTRIC DISCHARGES**
- Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
- Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
- Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
- ELECTRIC ENERGY STORAGE**
- Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
- Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

- Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
- Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- ELECTRIC EQUIPMENT**
- Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
- Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
- Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
- Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
- Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
- Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
- Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
- Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
- Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
- Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
- ELECTRIC EQUIPMENT TESTS**
- Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
- Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
- High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
- ELECTRIC FIELD STRENGTH**
- Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
- ELECTRIC FIELDS**
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
- Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
- Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
- Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
- Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- ELECTRIC FILTERS**
- Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752

- Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
- Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
- Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
- ELECTRIC FURNACES**
- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
- ELECTRIC FUSES**
- Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
- Diode and protection fuse unit Patent
[NASA-CASE-KXS-03381] c 09 N71-22796
- Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
- ELECTRIC GENERATORS**
- Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
- Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
- Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
- Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
- RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
- Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
- Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
- Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744

ELECTRIC IGNITION

Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

ELECTRIC MOTOR VEHICLES

Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776

ELECTRIC MOTORS

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030

Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Detent servo motor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861

Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999

Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244

Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476

Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386

Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

ELECTRIC NETWORKS

Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058

Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029

Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316

Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583

Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

ELECTRIC POTENTIAL

Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438

Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338

Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246

Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200

Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203

Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204

Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055

FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313

ELECTRIC POWER

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376

Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296

Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

ELECTRIC POWER PLANTS

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

ELECTRIC POWER SUPPLIES

Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988

Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935

Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

Arc lamp power supply
[NASA-CASE-LAR-13202-1] c 33 N86-32626

ELECTRIC POWER TRANSMISSION

Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988

Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870

Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

ELECTRIC PROPULSION

Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

ELECTRIC PULSES

Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655

Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447

Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993

Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

ELECTRIC RELAYS

Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897

Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998

Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625

ELECTRIC ROCKET ENGINES

Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822

ELECTRIC SPARKS

Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

ELECTRIC STIMULI

Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ELECTRIC SWITCHES

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255

Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518

Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610

Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272

Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960

Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035

Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153

Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418

Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

ELECTRIC TERMINALS

Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734

Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596

Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685

Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491

Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256

Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

ELECTRIC WELDING

Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798

Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468

- Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- ELECTRIC WIRE**
- Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
- Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
- Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
- Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
- Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
- Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
- High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
- Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
- Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
- Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- ELECTRICAL ENGINEERING**
- Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
- Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
- ELECTRICAL FAULTS**
- Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
- Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
- Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
- Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- ELECTRICAL IMPEDANCE**
- High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
- High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
- Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
- Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
- ELECTRICAL INSULATION**
- Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
- Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
- Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
- Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
- Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
- Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
- Coaxial cable connector
[NASA-CASE-NPO-16964-1CU] c 33 N87-15414

ELECTRICAL MEASUREMENT

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
- Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
- Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
- Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
- High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
- Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
- Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
- Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
- Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
- Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
- Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- ELECTRICAL PROPERTIES**
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
- Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
- Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- ELECTRICAL RESISTANCE**
- Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
- Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N87-29737
- ELECTRICAL RESISTIVITY**
- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
- Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150

- Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
- Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- ELECTRICITY**
- Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
- Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- ELECTRO-OPTICS**
- Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
- Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
- Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
- Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
- ELECTROACOUSTIC TRANSDUCERS**
- Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
- CDS solid state phase insensitive ultrasonic transducer --- annealing dardium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- ELECTROACOUSTIC WAVES**
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- ELECTROCARDIOGRAPHY**
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
- Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- ELECTROCATALYSTS**
- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
- ELECTROCHEMICAL CELLS**
- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053

- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
- Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
- Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- ELECTROCHEMICAL MACHINING**
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- ELECTROCHEMICAL OXIDATION**
Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- ELECTROCHEMISTRY**
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- ELECTRODE FILM BARRIERS**
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
- ELECTRODEPOSITION**
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
- Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
- Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- ELECTRODES**
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
- Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
- Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
- Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
- Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
- Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
- Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753
- Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
- ELECTRODIALYSIS**
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- ELECTROFORMING**
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
- ELECTROHYDRAULIC FORMING**
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
- ELECTROHYDRODYNAMICS**
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
- ELECTROKINETICS**
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
- ELECTROLUMINESCENCE**
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
- ELECTROLYSIS**
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- ELECTROLYTES**
Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
- Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
- Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- ELECTROLYTIC CELLS**
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
- Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
- Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
- Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
- Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- ELECTROMAGNETIC ABSORPTION**
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
- Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
- ELECTROMAGNETIC FIELDS**
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240

Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326

Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

ELECTROMAGNETIC HAMMERS
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650

Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

ELECTROMAGNETIC INTERFERENCE
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600

Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

ELECTROMAGNETIC MEASUREMENT
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

ELECTROMAGNETIC NOISE
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258

Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

ELECTROMAGNETIC PROPERTIES
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206

ELECTROMAGNETIC PROPULSION
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

ELECTROMAGNETIC PULSES
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

ELECTROMAGNETIC PUMPS
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084

ELECTROMAGNETIC RADIATION
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980

Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N86-24879

ELECTROMAGNETIC SHIELDING
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

ELECTROMAGNETIC WAVE FILTERS
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

ELECTROMAGNETIC WAVE TRANSMISSION
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTROMAGNETISM
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

ELECTROMAGNETS
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929

Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599

Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574

Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

ELECTROMECHANICAL DEVICES
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929

Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182

Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627

Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045

Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248

Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711

Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

ELECTROMETERS
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

ELECTROMIGRATION
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

ELECTROMOTIVE FORCES
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579

Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

ELECTRON ATTACHMENT
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

ELECTRON BEAM WELDING
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932

Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

ELECTRON BEAMS
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539

Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699

Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445

Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195

Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850

Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N87-18625

ELECTRON BOMBARDMENT
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822

Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190

Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699

Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426

Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944

ELECTRON CAPTURE
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

ELECTRON DISTRIBUTION
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

ELECTRON EMISSION
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

ELECTRON ENERGY
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

ELECTRON FLUX DENSITY
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

ELECTRON GUNS
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

ELECTRON IRRADIATION
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245

ELECTRON MICROSCOPES
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732

Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON MICROSCOPY
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

ELECTRON OSCILLATIONS
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

ELECTRON PHOTON CASCADES

Resistive anode image converter
[NASA-CASE-HCN-10876-1] c 33 N76-27473

ELECTRON PLASMA

Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661

ELECTRON SOURCES

Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON TRANSFER

Process for reducing secondary electron emission
Patent
[NASA-CASE-XNP-09469] c 24 N71-25555

ELECTRON TRANSITIONS

Diatom infrared gasdynamic laser --- for producing
different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

ELECTRON TUBES

Direct radiation cooling of the collector of linear beam
tubes
[NASA-CASE-XNP-09227] c 15 N69-24319

Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812

Ion sputter textured graphite --- anode collector plates
in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

Gyrotion transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTRON TUNNELING

Doped Josephson tunneling junction for use in a
sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332

Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492

ELECTRONIC CONTROL

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712

Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142

Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185

Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226

Electronic system for high power load control --- solar
arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

ELECTRONIC EQUIPMENT

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Pulse activated polarographic hydrogen detector
Patent
[NASA-CASE-XMF-06531] c 14 N71-17575

Stable amplifier having a stable quiescent point
Patent
[NASA-CASE-XGS-02812] c 09 N71-19466

Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

Circulator having quarter wavelength resonant post and
parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097

Optimum predetection diversity receiving system
Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Electronic cathode having a brush-like structure and a
relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190

Method and apparatus for varying thermal conductivity
Patent
[NASA-CASE-XNP-05524] c 33 N71-24876

A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

Automatic signal range selector for metering devices
Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958

Method and apparatus for data compression by a
decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Universal environment package with sectional
component housing
[NASA-CASE-KSC-10031] c 15 N72-22486

Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261

Method and apparatus for detecting surface ions on
silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

Versatile arithmetic unit for high speed sequential
decoder
[NASA-CASE-NPO-11371] c 08 N73-12177

Data processor with conditionally supplied clock
signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187

Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428

Phase control circuits using frequency multiplications for
phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461

Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014

Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

ELECTRONIC EQUIPMENT TESTS

Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991

Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270

Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

ELECTRONIC FILTERS

Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231

Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712

Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

ELECTRONIC MODULES

Thermal conductive connection and method of making
same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717

Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056

Heat conductive resiliently compressible structure for
space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052

Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918

Phase substitution of spare converter for a failed one
of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365

Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528

Electronically scanned pressure sensor module with in
SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347

Module failure isolation circuit for paralleled inverters
--- preventing system failure during power conditioning for
spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254

Circuit for automatic load sharing in parallel converter
modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257

Method and apparatus for fabricating improved solar
cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389

Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

ELECTRONIC PACKAGING

Electrical feed-through connection for printed circuit
boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431

Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522

Method of evaluating moisture barrier properties of
encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934

Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469

Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243

Integrated circuit package with lead structure and
method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918

Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839

Hermetically sealable package for hybrid solid-state
electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N82-28549

Electronic scanning pressure measuring system and
transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

ELECTRONIC RECORDING SYSTEMS

Propellant mass distribution metering apparatus
Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

ELECTRONIC TRANSDUCERS

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597

Failure sensing and protection circuit for converter
networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Electromagnetic transducer recording head having a
laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

Electronic scanning pressure measuring system and
transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

ELECTRONS

Means and method for calibrating a photon detector
utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

An ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N87-25829

ELECTROPHORESIS

Electrophoretic sample insertion --- device for uniformly
distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Apparatus for conducting flow electrophoresis in the
substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

Automatic multiple-sample applicator and
electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104

Portable electrophoresis apparatus using minimum
electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163

Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169

Electrophoretic fractional elution apparatus employing
a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

Method for separating biological cells --- suspended in
aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715

Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Moving wall, continuous flow electrophoresis
apparatus
[NASA-CASE-MFS-28142-1] c 25 N87-18627

ELECTROPHOTOMETERS

Method and device for detecting voids in low density
material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

ELECTROPHYSIOLOGY

Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

ELECTROPLATING

Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903

Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691

Method and apparatus for sputtering utilizing an
apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

Catalyst surfaces for the chromous/chromic redox
couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Method of forming oxide coatings --- for solar collector
heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388

ELECTROSTATIC CHARGE

Electrostatic charged particle analyzer having deflection
members shaped according to the periodic voltage applied
thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

Electrostatic measurement system --- for
contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477

Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

ELECTROSTATIC ENGINES

Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265

- Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
- ELECTROSTATIC GENERATORS**
- Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
- Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
- ELECTROSTATIC PRECIPITATORS**
- Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
- Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431
- ELECTROSTATIC PROBES**
- Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
- Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- ELECTROSTATIC PROPULSION**
- Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- ELECTROSTATIC SHIELDING**
- Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- ELECTROSTATICS**
- Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
- ELECTROTHERMAL ENGINES**
- Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
- Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
- Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- ELEVATION**
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918
- ELEVATORS (LIFTS)**
- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
- ELEVONS**
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- ELLIPSES**
- Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079
- ELLIPSOIDMETERS**
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- ELONGATION**
- Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
- Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
- ELUTION**
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
- EMERGENCIES**
- Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
- Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
- EMERGENCY BREATHING TECHNIQUES**
- Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

EMERGENCY LIFE SUSTAINING SYSTEMS

- Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
- Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
- Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
- EMERGENCY LOCATOR TRANSMITTERS**
- Improved legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N85-20226
- EMISSION SPECTRA**
- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- EMITTANCE**
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- EMITTERS**
- Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
- EMULSIONS**
- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- ENAMELS**
- Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
- ENCAPSULATING**
- Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
- Flexible, repairable, portable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
- Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N87-15004
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- ENCLOSURES**
- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- END EFFECTORS**
- Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
- Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
- Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N87-14705
- ENDOSCOPES**
- Boreoscope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
- Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
- ENDOTHERMIC REACTIONS**
- Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
- ENEMY PERSONNEL**
- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
- ENERGY ABSORPTION**
- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
- Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
- Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
- Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443

- Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
- Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
- Integrally-stiffened crash energy-absorbing subfloor beam structure
[NASA-CASE-LAR-13697-1] c 05 N87-25321
- ENERGY BANDS**
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1CU] c 76 N87-15883
- ENERGY CONSERVATION**
- Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396
- ENERGY CONSUMPTION**
- Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
- ENERGY CONVERSION**
- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
- Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
- Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
- ENERGY CONVERSION EFFICIENCY**
- Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
- Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
- Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- ENERGY DISSIPATION**
- Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
- Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
- Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
- ENERGY DISTRIBUTION**
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- ENERGY GAPS (SOLID STATE)**
- High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- ENERGY LEVELS**
- High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
- Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- ENERGY POLICY**
- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
- Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933

- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- ENERGY SOURCES**
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
- ENERGY STORAGE**
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- ENERGY TECHNOLOGY**
Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017
- ENERGY TRANSFER**
Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N87-15452
- ENGINE ANALYZERS**
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
- ENGINE CONTROL**
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- ENGINE COOLANTS**
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
- ENGINE DESIGN**
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- ENGINE FAILURE**
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
- ENGINE INLETS**
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- ENGINE MONITORING INSTRUMENTS**
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- ENGINE NOISE**
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- ENGINE PARTS**
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N86-32740
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N87-15464
- ENGINE STARTERS**
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- ENGINE TESTS**
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- ENGINEERING DRAWINGS**
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- ENTHALPY**
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- ENTRAINMENT**
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- ENUMERATION**
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- ENVIRONMENT SIMULATION**
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- ENVIRONMENT SIMULATORS**
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
- ENVIRONMENTAL CONTROL**
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
- ENVIRONMENTAL ENGINEERING**
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
- ENVIRONMENTAL MONITORING**
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- ENVIRONMENTAL TESTS**
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- ENVIRONMENTS**
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
- ENZYME ACTIVITY**
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- ENZYMES**
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
- EPICYCLOIDS**
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
- EPITAXY**
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879

EPOXY COMPOUNDS

- Synthesis of siloxane-containing epoxy polymers Patent
 [NASA-CASE-MFS-13994-1] c 06 N71-11240
 Siloxane containing epoxide compounds
 [NASA-CASE-MFS-13994-2] c 06 N72-25148
 Fire protection covering for small diameter missiles
 [NASA-CASE-ARC-11104-1] c 15 N79-26100
 Antenna grout replacement system
 [NASA-CASE-NPO-15202-1] c 27 N83-34043

EPOXY MATRIX COMPOSITES

- Toughening reinforced epoxy composites with brominated polymeric additives
 [NASA-CASE-ARC-11427-2] c 27 N86-27451

EPOXY RESINS

- Non-magnetic battery case Patent
 [NASA-CASE-XGS-00886] c 03 N71-11053
 Sealing device for an electrochemical cell Patent
 [NASA-CASE-XGS-02630] c 03 N71-22974
 Hydroforming techniques using epoxy molds Patent
 [NASA-CASE-XLE-05641-1] c 15 N71-26346
 Pressure sensitive transducers Patent
 [NASA-CASE-ERC-10087] c 14 N71-27334
 Epoxy-aziridine polymer product Patent
 [NASA-CASE-NPO-10701] c 06 N71-28620
 Method of repairing discontinuity in fiberglass structures
 [NASA-CASE-LAR-10416-1] c 24 N74-30001
 Transparent fire resistant polymeric structures
 [NASA-CASE-ARC-10813-1] c 27 N76-16230
 Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
 [NASA-CASE-LEW-13226-1] c 27 N81-17260
 Method of neutralizing the corrosive surface of amine-cured epoxy resins
 [NASA-CASE-GSC-12686-1] c 27 N83-34039
 Fluoroether modified epoxy composites
 [NASA-CASE-ARC-11418-1] c 24 N84-11213
 Process for improving mechanical properties of epoxy resins by addition of cobalt ions
 [NASA-CASE-LAR-13230-1] c 24 N84-34571
 Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
 [NASA-CASE-ARC-11424-1] c 27 N85-34281
 Process for improving moisture resistance of epoxy resins by addition of chromium ions
 [NASA-CASE-LAR-13226-1] c 27 N85-34282
 Toughening reinforced epoxy composites with brominated polymeric additives
 [NASA-CASE-ARC-11427-1] c 24 N86-19380
 Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
 [NASA-CASE-LAR-13562-1] c 24 N87-18613
 Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
 [NASA-CASE-ARC-11548-1] c 27 N87-25469

EQUATIONS OF MOTION

- Kinesimetric method and apparatus
 [NASA-CASE-MSC-18929-1] c 39 N83-20280

EQUIPMENT

- Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
 [NASA-CASE-ARC-10441-1] c 35 N74-15126
 Apparatus for supplying conditioned air at a substantially constant temperature and humidity
 [NASA-CASE-GSC-12191-1] c 31 N80-32583
 Airborne tracking Sun photometer apparatus and system
 [NASA-CASE-ARC-11622-1] c 44 N86-21982

EQUIPMENT SPECIFICATIONS

- Differential pressure cell Patent
 [NASA-CASE-XAC-00042] c 14 N70-34816
 High-temperature, high-pressure spherical segment valve Patent
 [NASA-CASE-XAC-00074] c 15 N70-34817
 Optical torquemeter Patent
 [NASA-CASE-XLE-00503] c 14 N70-34818
 Magnetically centered liquid column float Patent
 [NASA-CASE-XAC-00030] c 14 N70-34820
 Electric propulsion engine test chamber Patent
 [NASA-CASE-XLE-00252] c 11 N70-34844
 Channel-type shell construction for rocket engines and the like Patent
 [NASA-CASE-XLE-00144] c 28 N70-34860
 Non-reusable kinetic energy absorber Patent
 [NASA-CASE-XLE-00810] c 15 N70-34861
 Slit regulated gas journal bearing Patent
 [NASA-CASE-XNP-00476] c 15 N70-38620
 Optical communications system Patent
 [NASA-CASE-XLA-01090] c 07 N71-12389
 Stretcher Patent
 [NASA-CASE-XMF-06589] c 05 N71-23159
 Rocket thrust throttling system
 [NASA-CASE-LEW-10374-1] c 28 N73-13773

- Process for making diamonds
 [NASA-CASE-MFS-20698-2] c 15 N73-19457
 Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
 [NASA-CASE-LAR-10426-1] c 09 N74-19528
 Apparatus for conducting flow electrophoresis in the substantial absence of gravity
 [NASA-CASE-MFS-21394-1] c 34 N74-27744
 Thermocouple tape --- developed from thermoelectrically different metals
 [NASA-CASE-LEW-11072-2] c 35 N76-15434
 Field effect transistor and method of construction thereof
 [NASA-CASE-MFS-23312-1] c 33 N78-27326
 Constant magnification optical tracking system
 [NASA-CASE-NPO-14813-1] c 74 N82-24072
 Remotely controlled spray gun
 [NASA-CASE-MFS-28110-1] c 37 N87-24689
 Improved method and apparatus for waste collection and storage
 [NASA-CASE-MSC-21025-1] c 31 N87-25495

EQUIPOTENTIALS

- Equipotential space suit Patent
 [NASA-CASE-LAR-10007-1] c 05 N71-11195
 Instrument for measuring potentials on two dimensional electric field plots Patent
 [NASA-CASE-LAR-08493] c 10 N71-19421

ERGOMETERS

- Restraint system for ergometer
 [NASA-CASE-MFS-21046-1] c 14 N73-27377
 Ergometer
 [NASA-CASE-MFS-21109-1] c 05 N73-27941
 Tilting table for ergometer and for other biomedical devices
 [NASA-CASE-MFS-21010-1] c 05 N73-30078
 Foot pedal operated fluid type exercising device
 [NASA-CASE-MSC-11561-1] c 05 N73-32014
 Ergometer calibrator --- for any ergometer utilizing rotating shaft
 [NASA-CASE-MFS-21045-1] c 35 N75-15932

EROSION

- Thermal shock and erosion resistant tantalum carbide ceramic material
 [NASA-CASE-LAR-11902-1] c 27 N78-17206

ERROR ANALYSIS

- Program for computer aided reliability estimation
 [NASA-CASE-NPO-13086-1] c 15 N73-12495
 Bit error rate measurement above and below bit rate tracking threshold
 [NASA-CASE-MSC-12743-1] c 32 N79-10263

ERROR CORRECTING CODES

- Error correction method and apparatus for electronic timepieces
 [NASA-CASE-LAR-12654-1] c 33 N83-36357
 Self-correcting electronically scanned pressure sensor
 [NASA-CASE-LAR-12686-1] c 35 N84-14491
 Local area network with fault-checking, priorities and redundant backup
 [NASA-CASE-NPO-16949-1-CU] c 62 N87-19021
 Reed-Solomon decoder
 [NASA-CASE-NPO-15982-1] c 60 N87-21591
 Processing circuit with asymmetry corrector and convolutional encoder for digital data
 [NASA-CASE-MSC-20187-1] c 33 N87-25531

ERROR CORRECTING DEVICES

- Automatic fault correction system for parallel signal channels Patent
 [NASA-CASE-XNP-03263] c 09 N71-18843
 Elimination of frequency shift in a multiplex communication system Patent
 [NASA-CASE-XNP-01306] c 07 N71-20814
 Error correcting method and apparatus Patent
 [NASA-CASE-XNP-02748] c 08 N71-22749
 Failure detection and control means for improved drift performance of a gimbalized platform system
 [NASA-CASE-MFS-23551-1] c 04 N76-26175
 Guide for a typewriter
 [NASA-CASE-MFS-15218-1] c 37 N77-19457

ERROR DETECTION CODES

- Self-testing and repairing computer Patent
 [NASA-CASE-NPO-10567] c 08 N71-24633
 Local area network with fault-checking, priorities and redundant backup
 [NASA-CASE-NPO-16949-1-CU] c 62 N87-19021

ERROR SIGNALS

- Automatic fault correction system for parallel signal channels Patent
 [NASA-CASE-XNP-03263] c 09 N71-18843
 Sampled data controller Patent
 [NASA-CASE-GSC-10554-1] c 08 N71-29033
 Bit error rate measurement above and below bit rate tracking threshold
 [NASA-CASE-MSC-12743-1] c 32 N79-10263

- Apparatus and method for tracking the fundamental frequency of an analog input signal
 [NASA-CASE-ARC-11367-1] c 33 N83-21238
 Triac failure detector
 [NASA-CASE-MFS-25607-1] c 33 N83-34190
 Automated weld torch guidance control system
 [NASA-CASE-MFS-25807-2] c 37 N86-21850
 Comparator with noise suppression
 [NASA-CASE-LAR-13151-1] c 33 N87-21235

ERRORS

- Analog-to-digital converter
 [NASA-CASE-MSC-13110-1] c 08 N72-22163
 Compensation for primary reflector wavefront error
 [NASA-CASE-NPO-16869-1CU] c 74 N86-33138
 Porous plug for reducing orifice induced pressure error in airfoils
 [NASA-CASE-LAR-13569-1] c 35 N87-25559

ESCAPE CAPSULES

- Aerial capsule emergency separation device Patent
 [NASA-CASE-XLA-00115] c 03 N70-33343
 Emergency escape system Patent
 [NASA-CASE-XKS-02342] c 05 N71-11199
 Emergency earth orbital escape device
 [NASA-CASE-MSC-13281] c 31 N72-18859

ESCAPE SYSTEMS

- Emergency escape system Patent
 [NASA-CASE-MSC-12086-1] c 05 N71-12345
 Emergency escape system Patent
 [NASA-CASE-XKS-07814] c 15 N71-27067
 Explosively activated egress area
 [NASA-CASE-LAR-12624-1] c 01 N83-35992

ESCHERICHIA

- Method for detecting coliform organisms
 [NASA-CASE-ARC-11322-1] c 51 N83-28849

ESTERS

- Fluorinated esters of polycarboxylic acids
 [NASA-CASE-MFS-21040-1] c 06 N73-30098

ETCHING

- Masking device Patent
 [NASA-CASE-XNP-02092] c 15 N70-42033
 Method for etching copper Patent
 [NASA-CASE-XGS-06306] c 17 N71-16044
 High resolution developing of photosensitive resists Patent
 [NASA-CASE-XGS-04993] c 14 N71-17574
 Etching of aluminum for bonding Patent
 [NASA-CASE-XMF-02303] c 17 N71-23828
 Selective plating of etched circuits without removing previous plating Patent
 [NASA-CASE-XGS-03120] c 15 N71-24047
 Plating nickel on aluminum castings Patent
 [NASA-CASE-XNP-04148] c 17 N71-24830
 Scanning nozzle plating system --- for etching or plating metals on substrates without masking
 [NASA-CASE-NPO-11758-1] c 31 N74-23065
 Method for applying photographic resists to otherwise incompatible substrates
 [NASA-CASE-MSC-18107-1] c 27 N81-25209
 Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
 [NASA-CASE-GSC-12515-1] c 33 N81-26360
 Liquid immersion apparatus for minute articles
 [NASA-CASE-MFS-25363-1] c 37 N82-12441
 Controlled in situ etch-back
 [NASA-CASE-NPO-15625-1] c 76 N83-20789
 Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
 [NASA-CASE-LEW-13107-2] c 52 N84-23095
 Ion beam sputter etching
 [NASA-CASE-LEW-13899-1] c 31 N87-21160

ETHANE

- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
 [NASA-CASE-ARC-11097-1] c 25 N82-24312

ETHERS

- Method of producing alternating ether siloxane copolymers Patent
 [NASA-CASE-XMF-02584] c 06 N71-20905
 Hydroxy terminated perfluoro ethers Patent
 [NASA-CASE-NPO-10768] c 06 N71-27254
 Polyurethane resins from hydroxy terminated perfluoro ethers
 [NASA-CASE-NPO-10768-2] c 06 N72-27144
 Process of treating cellulosic membrane and alkaline with membrane separator
 [NASA-CASE-GSC-10019-1] c 44 N82-24641
 Separator for alkaline electric cells and method of making
 [NASA-CASE-GSC-10017-1] c 44 N82-24643
 Perfluoro (imidoylamidine) diamidines
 [NASA-CASE-ARC-11402-3] c 23 N86-21582
 Polyarylene ethers with improved properties
 [NASA-CASE-LAR-13555-1] c 23 N86-32526

ETHYL COMPOUNDS

- Precision heat forming of tetrafluoroethylene tubing
 [NASA-CASE-MSC-18430-1] c 37 N82-24491

Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

ETHYLENE OXIDE
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

EUTECTIC ALLOYS
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

EVACUATING (VACUUM)
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111

EVAPORATION
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483

EVAPORATIVE COOLING
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Capillary heat transport and fluid management device --- spacecraft thermal control
[NASA-CASE-MFS-28217-1] c 34 N87-29769

EVAPORATORS
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593

EXAMINATION
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

EXCHANGING
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

EXCLUSION
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

EXHAUST EMISSION
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

EXHAUST GASES
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

EXHAUST NOZZLES

Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

EXOTHERMIC REACTIONS

Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

EXPANDABLE STRUCTURES

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

EXPANSION

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179

EXPERIMENT DESIGN

Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

EXPIRED AIR

Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

EXPLOSIONS

Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

EXPLOSIVE DEVICES

Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

EXPLOSIVE FORMING

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

EXPLOSIVE WELDING

Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364

EXPLOSIVES

Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

EXPONENTIAL FUNCTIONS

Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176

EXPOSURE

Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

EXPULSION

Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

EXPULSION BLADDERS

Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182

EXTENSIONS

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

EXTENSOMETERS

Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

EXTERNAL COMBUSTION ENGINES

Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

EXTERNAL STORE SEPARATION

Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

EXTERNAL STORES

Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

EXTERNAL TANKS

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

EXTRACTION

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

EXTRAVEHICULAR ACTIVITY

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

EXTREMELY LOW RADIO FREQUENCIES

- VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
- EXTRUDING**
- Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- EYE (ANATOMY)**
- Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
- Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
- Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
- Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
- EYE DISEASES**
- Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
- EYE EXAMINATIONS**
- Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
- Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
- Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
- EYEPIECES**
- Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

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FABRICATION

- Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
- Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
- Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
- Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
- Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
- Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
- Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
- FABRICS**
- Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
- Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
- Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
- FABRY-PEROT INTERFEROMETERS**
- Retrodiffractive optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- FACSIMILE COMMUNICATION**
- Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
- FACTORIAL DESIGN**
- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- FAIL-SAFE SYSTEMS**
- Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
- Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
- Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- FAILURE ANALYSIS**
- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- FAILURE MODES**
- High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
- Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
- FAIRINGS**
- Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853

- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- FALLING SPHERES**
- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- FAR INFRARED RADIATION**
- Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
- Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
- FAR ULTRAVIOLET RADIATION**
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- FARADAY EFFECT**
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- FAST FOURIER TRANSFORMATIONS**
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- FASTENERS**
- Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
- Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
- All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
- Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
- Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
- Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
- Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
- Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
- Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
- Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
- Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
- FATIGUE (MATERIALS)**
- Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- FATIGUE LIFE**
- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
- High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
- High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- FATIGUE TESTING MACHINES**
- Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- FATIGUE TESTS**
- Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537

Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

FATS
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308

FECES
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495

FEED SYSTEMS
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

FEEDBACK
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254

FEEDBACK AMPLIFIERS
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

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Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

FEEDBACK CONTROL
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428

The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

FEEDBACK FREQUENCY MODULATION
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

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Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
Pressure rig for repetitive casting
[NASA-CASE-LAR-13485-1] c 31 N87-29712

FEET (ANATOMY)
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

FELTS
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221

FEMALES
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

FERMENTATION
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

FERRITES
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

FERROFLUIDS
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

FERROMAGNETIC MATERIALS
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335

FERROMAGNETISM
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

FIBER COMPOSITES
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Arc spray fabrication of metal matrix composite monotype
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131

FIBER OPTICS

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
Optical data transfer system for crossing a rotary joint
[NASA-CASE-LAR-13613-1-SB] c 74 N87-24984

FIBER REINFORCED COMPOSITES
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N87-25473
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-26656

FIBER RELEASE
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

FIBER STRENGTH
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

FIBERS
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

FIELD EFFECT TRANSISTORS
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500

- Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
- Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
- Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
- Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
- FIELD EMISSION**
- Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
- FIELD OF VIEW**
- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- FILAMENT WINDING**
- Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
- Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- FILAMENTS**
- Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
- Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
- FILLERS**
- Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- FILM COOLING**
- Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
- FILM THICKNESS**
- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949

- Degassing and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- FILMS**
- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- FILTERS**
- Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
- Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- FILTRATION**
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
- FINS**
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- FIRE EXTINGUISHERS**
- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- FIRE PREVENTION**
- Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
- Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- FIREPROOFING**
- Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
- Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
- Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing a halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
- Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
- FIRES**
- Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
- Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
- FIRING (IGNITING)**
- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- FITTINGS**
- Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
- Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
- Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N87-18597

- Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- FIXED WINGS**
- Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- FIXTURES**
- Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- FLAME PROBES**
- Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
- FLAME RETARDANTS**
- Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
- Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 27 N84-33394
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- Fire and heat resistant laminating resins based on maleimide and citraconimide substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- The 1-(diorganooxy phosphonyl) methyl-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- FLAME SPRAYING**
- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
- Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- FLAME TEMPERATURE**
- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
- FLAMES**
- Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
- Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
- FLAMMABILITY**
- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
- Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
- Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358

- Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Light weight fire resistant graphite composites
[US-PATENT-4.598.007] c 24 N86-28131
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- FLANGES**
- Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
- Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
- Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
- FLAPS (CONTROL SURFACES)**
- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
- Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
- FLARED BODIES**
- Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
- FLASH LAMPS**
- Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
- FLAT CONDUCTORS**
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
- Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
- Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
- Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
- Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
- FLAT PLATES**
- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
- Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
- Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- FLEXIBILITY**
- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
- Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- FLEXIBLE BODIES**
- Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
- Defective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
- Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
- Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
- Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
- Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
- FLEXIBLE WINGS**
- Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
- Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
- Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
- FLEXING**
- Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
- FLIGHT**
- Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
- FLIGHT ALTITUDE**
- Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
- Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
- CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- FLIGHT CLOTHING**
- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
- FLIGHT CONTROL**
- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
- Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
- Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
- Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- FLIGHT CREWS**
- Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
- FLIGHT INSTRUMENTS**
- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- FLIGHT RECORDERS**
- Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
- FLIGHT SAFETY**
- Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
- Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
- FLIGHT SIMULATION**
- Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
- Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
- Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
- FLIGHT SIMULATORS**
- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
- Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
- Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
- Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
- Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990
- Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- FLIGHT TESTS**
- Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
- FLIGHT TRAINING**
- Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990
- FLIGHT VEHICLES**
- Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
- Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
- FLIP-FLOPS**
- AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
- Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
- FLOAT ZONES**
- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N87-15004
- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- FLOATING**
- Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
- Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
- Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
- FLOATS**
- Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
- FLOORS**
- Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918
- Integrally-stiffened crash energy-absorbing subfloor beam structure
[NASA-CASE-LAR-13697-1] c 05 N87-25321
- FLOTATION**
- Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
- FLOW CHAMBERS**
- Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337

- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N87-18627

FLOW DIRECTION INDICATORS

- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

FLOW DISTORTION

- Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N87-18627

FLOW DISTRIBUTION

- Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N87-18779
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

FLOW MEASUREMENT

- Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N86-24978
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N87-23587

FLOW REGULATORS

- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487

- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Combined riblet and LEBU drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N85-28922
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N87-18627

FLOW RESISTANCE

- Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

FLOW STABILITY

- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

FLOW VELOCITY

- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Densitymeter Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

FLOW VISUALIZATION

- Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N87-18535

FLOWMETERS

- Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

- Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N87-23587

FLUID AMPLIFIERS

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

FLUID DYNAMICS

- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

FLUID FILLED SHELLS

- Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

FLUID FILMS

- Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

FLUID FILTERS

- Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

FLUID FLOW

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859

Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603

Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811

Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500

Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609

Heated element fluid flow sensor Patent
[NASA-CASE-MS-C-12084-1] c 12 N71-17569

Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580

Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996

Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036

Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191

Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546

Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332

Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741

Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365

Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199

Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445

Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442

Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484

Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486

Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513

Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N72-21065

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MS-C-14273-1] c 34 N75-33342

Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447

Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460

Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423

Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501

Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399

Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465

Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351

Fluid valve assembly
[NASA-CASE-MS-C-12731-1] c 37 N78-25426

Positive isolation disconnect
[NASA-CASE-MS-C-16043-1] c 37 N79-11402

Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359

Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680

Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

Fluid leak indicator
[NASA-CASE-MS-C-20783-1] c 35 N86-20756

Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752

Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696

Multi-path peristaltic pump
[NASA-CASE-MS-C-20907-1] c 37 N87-18818

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

FLUID INJECTION
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375

Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634

Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212

Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153

Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

FLUID JETS
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

FLUID LOGIC
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

FLUID MANAGEMENT
Capillary heat transport and fluid management device --- spacecraft thermal control
[NASA-CASE-MFS-28217-1] c 34 N87-29769

FLUID MECHANICS
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573

Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

FLUID POWER
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031

Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465

FLUID PRESSURE
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351

Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

FLUID ROTOR GYROSCOPES
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

FLUID SWITCHING ELEMENTS
Booster tank system Patent
[NASA-CASE-MS-C-12390] c 27 N71-29155

FLUID TRANSMISSION LINES
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

FLUIDIC CIRCUITS
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329

Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

FLUIDICS
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603

Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519

Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769

Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050

Fluid valve assembly
[NASA-CASE-MS-C-12731-1] c 37 N78-25426

Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-ICU] c 35 N86-32695

FLUIDIZED BED PROCESSORS
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154

Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144

Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475

Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

FLUIDS
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754

Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100

Fluid mass sensor for a zero gravity environment
[NASA-CASE-MS-C-14653-1] c 35 N77-19385

Self-charging metering and dispensing device for fluids
[NASA-CASE-MS-C-20275-1] c 35 N85-21595

FLUORESCENCE
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787

Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947

Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585

Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

FLUORIDES
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408

Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121

Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

FLUORINATION
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

FLUORINE
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107

Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N86-32570

FLUORINE COMPOUNDS
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191

Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MS-C-18430-1] c 37 N82-24491

FLUORO COMPOUNDS
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251

Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101

Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076

Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228

The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

FLUOROCARBONS
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150

FLUOROHYDROCARBONS
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis --- synthetic routes to monomers for polyimides
[NASA-CASE-LEW-14345-1] c 23 N87-14432

New condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N87-14433

FLUOROPOLYMERS
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440

Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521

- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N86-32570
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis --- synthetic routes to monomers for polyimides
[NASA-CASE-LEW-14345-1] c 23 N87-14432
New condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N87-14433

FLUTTER

- Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

FLUTTER ANALYSIS

- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

FLUX (RATE)

- Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

FLUX DENSITY

- Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

FLUXES

- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

FLYWHEELS

- Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

FOAMS

- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N86-32570

FOCAL PLANE DEVICES

- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026

FOCI

- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

FOCUSING

- X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N86-24978

FOG

- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MS-13530-2] c 23 N75-14834
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398

FOILS (MATERIALS)

- Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

FOLDING

- Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180

FOLDING STRUCTURES

- Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Radiator deployment actuator Patent
[NASA-CASE-MS-11817-1] c 15 N71-26611
Foldable construction block
[NASA-CASE-MS-12233-1] c 15 N72-25454

- Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Shuttle-launch triangular space station
[NASA-CASE-MS-20676-1] c 18 N86-24729
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Foldable self-erecting joint
[NASA-CASE-MS-20635-1] c 18 N87-14373
Sun shield
[NASA-CASE-MS-20162-1] c 37 N87-17036
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

FOOD

- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

FOOTPRINTS

- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

FORCE

- Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

FORCE DISTRIBUTION

- Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Impact monitoring apparatus
[NASA-CASE-MS-15626-1] c 14 N72-25411
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884

FORCED VIBRATION

- Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

FOREBODIES

- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

FORMALDEHYDE

- Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Synthesis of 2,4,8,10-tetroxaspiro[5,5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

FORMAT

- Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

FORMATES

- Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

FORMING TECHNIQUES

- Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371

- Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MS-C-19693-1] c 26 N78-24333
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MS-C-18430-1] c 37 N82-24491
- Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- FOSSIL FUELS**
- Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
- FOUNDATIONS**
- Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
- Adjustable securing base
[NASA-CASE-MS-C-19666-1] c 37 N78-17383
- Space station erectable manipulator placement system
[NASA-CASE-MS-C-21096-1] c 18 N87-18596
- FOURIER TRANSFORMATION**
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N87-19064
- FRACTIONATION**
- Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
- Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
- Spillage detector for liquid chromatography systems
[NASA-CASE-MS-C-20206-1] c 25 N86-27431
- FRACTURE MECHANICS**
- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- FRACTURE STRENGTH**
- Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- FRAMES**
- Articulated multiple couch assembly Patent
[NASA-CASE-MS-C-11253] c 05 N71-12343
- Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
- Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
- Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
- FRAMING CAMERAS**
- High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
- FREE FLIGHT TEST APPARATUS**
- Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
- FREE WING AIRCRAFT**
- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- FREEZE DRYING**
- Modification of the physical properties of freeze-dried rice
[NASA-CASE-MS-C-13540-1] c 05 N72-33096
- FREIZING**
- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- FREON**
- Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581
- FREQUENCIES**
- Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
- High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
- FREQUENCY ANALYZERS**
- Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
- Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
- Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
- FREQUENCY CONTROL**
- Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
- Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08865] c 10 N71-19467
- Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
- Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
- Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- Digital numerically controlled oscillator
[NASA-CASE-MS-C-16747-1] c 33 N81-17349
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
- Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
- FREQUENCY CONVERTERS**
- Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
- Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
- Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- Family of frequency to amplitude converters
[NASA-CASE-MS-C-12395] c 09 N72-25257
- Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
- FREQUENCY DISCRIMINATORS**
- PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
- Acoustic emission frequency discrimination
[NASA-CASE-MS-C-20467-1] c 35 N87-14676
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- FREQUENCY DISTRIBUTION**
- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- FREQUENCY DIVIDERS**
- Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
- Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
- Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
- Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
- FREQUENCY DIVISION MULTIPLEXING**
- Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176
- FREQUENCY MEASUREMENT**
- Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
- Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MS-C-14649-1] c 33 N76-16331
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MS-C-20865-1] c 32 N87-18692
- Frequency domain laser velocimeter signal
[NASA-CASE-LAR-13552-1-CU] c 33 N87-18761
- FREQUENCY MODULATION**
- Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
- Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
- Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
- Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
- Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
- Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
- Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
- Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
- Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
- FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
- Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- FREQUENCY MULTIPLIERS**
- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Open loop digital frequency multiplier
[NASA-CASE-MS-C-12709-1] c 33 N77-24375
- FREQUENCY RANGES**
- Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
- Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- FREQUENCY SCANNING**
- Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
- Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
- FREQUENCY SHIFT**
- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321

FREQUENCY SHIFT KEYING
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

FREQUENCY STABILITY
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

FREQUENCY STANDARDS
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

FREQUENCY SYNCHRONIZATION
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

FREQUENCY SYNTHESIZERS
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

FRICTION
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

FRICTION DRAG
Combined riblet and LEBU drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N85-28922
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575

FRICTION FACTOR
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

FRICTION MEASUREMENT
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696

FRICTION REDUCTION
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978

Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383

FRICTIONLESS ENVIRONMENTS
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223

FROST
Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018

FUEL CAPSULES
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846

FUEL CELL POWER PLANTS
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MS-C-20127-2] c 37 N85-34403

FUEL CELLS
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MS-C-12568-1] c 24 N76-14204
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MS-C-20127-2] c 37 N85-34403

FUEL COMBUSTION
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

FUEL CONSUMPTION
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

FUEL CONTROL
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

FUEL FLOW
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772

FUEL FLOW REGULATORS
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

FUEL GAGES
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134

FUEL INJECTION
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

FUEL OILS
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

FUEL PUMPS
Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MS-C-12139-1] c 28 N71-14058

FUEL SYSTEMS
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

FUEL TANK PRESSURIZATION
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Automatic pump Patent
[NASA-CASE-NPO-04731] c 15 N71-24042
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

FUEL TANKS
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Tanker orbit transfer vehicle and method
[NASA-CASE-MS-C-20543-1] c 18 N84-22610
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N87-25478

FUEL VALVES
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426

FUEL-AIR RATIO
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

FUELS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

FUNCTION GENERATORS
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248

- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MS-13907-1] c 10 N73-26230
- FURLABLE ANTENNAS**
- Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
- Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
- Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457
- FURNACES**
- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
- FUSELAGES**
- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N87-23630
- A multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N87-25320
- Integrally-stiffened crash energy-absorbing subfloor beam structure
[NASA-CASE-LAR-13697-1] c 05 N87-25321
- FUSION (MELTING)**
- Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- FUSION WELDING**
- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
- Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
- G**
- GADOLINIUM**
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- GALILEO PROJECT**
- Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
- GALLIUM**
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

GALLIUM ARSENIDES

- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- GALLIUM PHOSPHIDES**
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- GALVANIC SKIN RESPONSE**
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- GAMMA RAY SPECTROMETERS**
- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- GAMMA RAYS**
- Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
- Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- GANTRY CRANES**
- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- GAPS**
- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- GARMENTS**
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Flexible joint for pressurizable garment
[NASA-CASE-MS-11072] c 54 N74-32546
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MS-18381-1] c 52 N81-28740
- Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
- GAS ANALYSIS**
- Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
- Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
- Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
- Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502

- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
- Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MS-14428-1] c 23 N77-17161
- Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N87-18626
- GAS BAGS**
- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
- GAS BEARINGS**
- Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
- Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
- Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
- Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
- Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
- Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- GAS CHROMATOGRAPHY**
- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- GAS COMPOSITION**
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- Moisture content and gas sampling device
[NASA-CASE-MS-18866-1] c 35 N85-29213
- GAS COOLED REACTORS**
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- GAS COOLING**
- Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568

Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

GAS DENSITY

Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

GAS DETECTORS

Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Miniature carbon dioxide sensor and methods
[NASA-CASE-MS-13332-1] c 14 N72-21408
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

GAS DISCHARGE TUBES

Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693

GAS DISCHARGES

Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961

GAS EVOLUTION

Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185

GAS EXPANSION

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477

GAS FLOW

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Gas filter mounting structure
[NASA-CASE-MS-12297] c 14 N72-23457
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Condensate removal device for heat exchanger
[NASA-CASE-MS-14143-1] c 77 N75-20139
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Gas compression apparatus
[NASA-CASE-MS-14757-1] c 35 N78-10428
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

GAS GENERATORS

Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636

GAS GUNS

Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

GAS HEATING

Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

GAS INJECTION

Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Solid sorbent air sampler
[NASA-CASE-MS-20653-1] c 35 N86-26595

GAS IONIZATION

Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

GAS JETS

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

GAS LASERS

Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

GAS LUBRICANTS

Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

GAS MASERS

Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HCN-10654-1] c 16 N73-13489
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436

GAS MIXTURES

Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253

GAS PIPES

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608

GAS PRESSURE

Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Pressure limiting propellant actuating system
[NASA-CASE-MS-18179-1] c 20 N80-18097
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

GAS STREAMS

Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

GAS TEMPERATURE
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

GAS TRANSPORT
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

GAS TUBES
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

GAS TURBINE ENGINES
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793

Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665

Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190

Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229

Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280

Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066

Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539

Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N86-32740

GAS TURBINES

Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915

Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453

Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057

Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188

GAS VALVES
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817

Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087

Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407

Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051

Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

GAS WELDING
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

GAS-LIQUID INTERACTIONS
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282

GAS-METAL INTERACTIONS
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

GASDYNAMIC LASERS
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

GASEOUS DIFFUSION
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080

Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

GASEOUS FISSION REACTORS
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

GASEOUS ROCKET PROPELLANTS
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245

Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

GASES
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372

Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390

Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

GASIFICATION
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

GASKETS
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629

Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

GATES (CIRCUITS)

Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514

Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432

Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316

Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709

Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626

FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313

GATES (OPENINGS)
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

GAW-1 AIRFOIL
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154

GEAR TEETH
Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385

Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

GEARS
Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692

Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984

Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901

Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377

Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318

Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496

Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084

GELATION
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N87-25473

GELLED ROCKET PROPELLANTS
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212

GELS
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N86-32570

GENERAL AVIATION AIRCRAFT
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

GENERATORS
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N87-29737

GEODESY
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

GEODETIC SURVEYS

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEODIMETERS

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEOLOGICAL SURVEYS

Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709

Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

GEOMETRY

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

GERMANIUM

Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320

GIMBALS

Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162

Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694

Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243

Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537

Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

GLANDS (SEALS)

Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488

Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

GLASS

Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267

Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988

Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449

Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600

Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482

Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260

Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

GLASS COATINGS

Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681

Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582

Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037

Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520

High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

GLASS ELECTRODES

Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699

Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

GLASS FIBER REINFORCED PLASTICS

Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915

Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

GLASS FIBERS

Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053

Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489

Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604

Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575

Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451

High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

GLASSWARE

Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

GLAUCOMA

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

GLIDE PATHS

Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

GLOBAL POSITIONING SYSTEM

Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270

GLOBES

Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

GLOVES

Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080

Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677

Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113

Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484

GLOW DISCHARGES

Deposition of alloy films --- on irregular shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245

Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

GLUCOSE

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

GLYCOLS

Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

GOLD COATINGS

Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

GONDOLAS

System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

GRANULAR MATERIALS

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

GRAPHITE

Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735

Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135

Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131

GRAPHITE-EPOXY COMPOSITES

Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000

Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613

Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

GRATINGS (SPECTRA)

Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140

Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

GRAVIMETERS

Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

GRAVITATION

Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397

Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

GRAVITATIONAL CONSTANT

Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196

GRAVITATIONAL EFFECTS

Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619

Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503

Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

GRAVITATIONAL FIELDS

Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537

Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

GRAVITY GRADIENT SATELLITES

Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729

Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

GRAVITY GRADIOMETERS

- Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

GRAZING INCIDENCE

- Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GRIDS

- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31866

GRINDING (MATERIAL REMOVAL)

- Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

GRINDING MACHINES

- Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

GROOVES

- Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180

GROUND EFFECT (COMMUNICATIONS)

- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

GROUND EFFECT MACHINES

- Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672

GROUND HANDLING

- Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

GROUND STATIONS

- Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

GROUND SUPPORT EQUIPMENT

- Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

GROUND-AIR-GROUND COMMUNICATION

- Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

GROUT

- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

GUARDS (SHIELDS)

- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

GUIDANCE (MOTION)

- Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571

- Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

GUIDANCE SENSORS

- Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

GUN LAUNCHERS

- Self-obturator, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

GUN PROPELLANTS

- Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

GUNN EFFECT

- Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

GUNS

- Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

GYNECOLOGY

- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

GYRATORS

- Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

GYROSCOPES

- Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

GYROSCOPIC PENDULUMS

- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

GYROSTABILIZERS

- Passive dual spin misalignment compensators --- gyro stabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

H**HAFNIUM**

- Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

HALIDES

- Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

HALL EFFECT

- Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

HALL GENERATORS

- Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

HALOGENS

- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

HAMMERS

- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

HAND (ANATOMY)

- Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652

HANDLING EQUIPMENT

- Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

HARDENING (MATERIALS)

- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

HARDNESS

- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

HARMONIC GENERATORS

- Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

HARNESSES

- Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

HATCHES

- Emergency escape system Patent
[NASA-CASE-MSC-12066-1] c 05 N71-12345

HEAD-UP DISPLAYS

- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

HEART FUNCTION

- Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726

HEART RATE

- Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

HEAT

- Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599

HEAT EXCHANGERS

- Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725

Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915

Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619

Condensate removal device for heat exchanger
[NASA-CASE-MS-C-14143-1] c 77 N75-20139

Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317

Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463

Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413

Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403

Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288

Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289

Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443

Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MS-C-16182-1] c 54 N80-10799

Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573

Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519

Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875

High effectiveness contour matching contact heat exchanger
[NASA-CASE-MS-C-20840-1] c 34 N87-18779

Monogroove cold plate
[NASA-CASE-MS-C-20946-1] c 34 N87-28867

Capillary heat transport and fluid management device --- spacecraft thermal control
[NASA-CASE-MFS-28217-1] c 34 N87-29769

HEAT FLUX

Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459

Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948

HEAT MEASUREMENT

Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830

Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MS-C-14081-1] c 35 N74-27860

Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N87-18626

HEAT OF COMBUSTION

Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N87-18626

HEAT OF VAPORIZATION

Pumped two-phase heat transfer loop
[NASA-CASE-MS-C-20841-1] c 34 N87-22950

HEAT PIPES

Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055

Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486

Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222

Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515

Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336

Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337

Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399

Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596

Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568

High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

Multi-leg heat pipe evaporator
[NASA-CASE-MS-C-20812-1] c 34 N86-27593

Monogroove cold plate
[NASA-CASE-MS-C-20946-1] c 34 N87-28867

Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586

HEAT PUMPS

Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610

Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084

Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513

Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335

Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114

Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

HEAT RADIATORS

Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035

Radiator deployment actuator Patent
[NASA-CASE-MS-C-11817-1] c 15 N71-26611

Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586

HEAT RESISTANT ALLOYS

High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283

Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025

Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365

Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465

Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301

Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179

Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311

Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400

Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187

Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280

Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183

Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855

Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647

Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

HEAT SHIELDING

Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459

Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871

Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344

Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979

Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075

Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242

Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243

Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124

Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145

Spacecraft Patent
[NASA-CASE-MS-C-13047-1] c 31 N71-25434

Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MS-C-12109] c 18 N71-26285

Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MS-C-12619-2] c 27 N79-12221

Thermal insulation protection means
[NASA-CASE-MS-C-12737-1] c 24 N79-25142

Installing fiber insulation
[NASA-CASE-MS-C-16973-1] c 37 N81-14317

Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MS-C-18134-1] c 37 N81-15363

Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417

High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MS-C-18832-1] c 27 N83-18908

Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335

HEAT SINKS

Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717

Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353

Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502

Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

HEAT SOURCES

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031

Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876

Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163

Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-C-25707-1] c 35 N85-29214

HEAT STORAGE

Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696

Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792

Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

HEAT TRANSFER

Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847

Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979

Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020

Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277

Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445

Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989

Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199

Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MS-12389] c 33 N71-29052

Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084

High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152

Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

Thermal fluid transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606

Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818

Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552

Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463

Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336

Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287

Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519

Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368

Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596

Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MS-20497-1] c 34 N85-29180

Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N87-19116

Pumped two-phase heat transfer loop
[NASA-CASE-MS-20841-1] c 34 N87-22950

HEAT TRANSMISSION

Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859

Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876

Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692

HEAT TREATMENT

High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147

Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871

Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672

Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468

Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487

Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521

Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055

Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714

Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MS-19693-1] c 26 N78-24333

Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N86-32570

Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704

Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647

Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656

HEATERS

Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935

HEATING

System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772

Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128

Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-25707-1] c 35 N85-29214

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N87-29799

HEATING EQUIPMENT

Method and apparatus for controllably heating fluid
Patent
[NASA-CASE-XMF-04237] c 33 N71-16278

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816

Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948

Self-cycling fluid heater
[NASA-CASE-MS-15567-1] c 33 N73-16918

Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808

Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575

HEIGHT

Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

HELICAL ANTENNAS

Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493

Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117

HELICOPTER CONTROL

Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N87-23630

HELICOPTER DESIGN

Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N87-23630

Helicopter having a disengageable tail rotor
[NASA-CASE-LAR-13609-1] c 05 N87-24460

HELICOPTER TAIL ROTORS

Helicopter having a disengageable tail rotor
[NASA-CASE-LAR-13609-1] c 05 N87-24460

HELICOPTER WAKES

Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018

HELICOPTERS

Hingeless helicopter rotor with improved stability
[NASA-CASE-LAR-10807-1] c 05 N77-17029

Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

Helicopter anti-torque system using strakes
[NASA-CASE-LAR-12323-1] c 05 N84-33400

High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N87-14282

Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

HELIOSTATS

Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

HELIUM

Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946

High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044

Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229

Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

HELIUM HYDROGEN ATMOSPHERES

Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

HELIUM IONS

Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402

HELIUM-NEON LASERS

Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536

Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

HELMETS

Helmet assembly and latch means thereof Patent
[NASA-CASE-XMS-04935] c 05 N71-11190

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193

Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678

Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679

Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680

Emergency space-suit helmet
[NASA-CASE-MS-10954-1] c 54 N78-18761

Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

HELMHOLTZ RESONATORS

Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

HEMISPHERICAL SHELLS

Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604

HERMETIC SEALS

Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017

Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078

Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164

Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910

Hermetic sealed vibration damper Patent
[NASA-CASE-MS-10959] c 15 N71-26243

Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068

Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195

Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552

Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493

Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MS-20181-1] c 33 N82-28549

Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

HEXAGONS

HEXAGONS

Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515

HEXAMETHYLENETETRAMINE

Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999

HEXOKINASE

Use of the enzyme hexokinase for the reduction of
inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

HIGH ACCELERATION

Universal pilot restraint suit and body support therefor
Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

HIGH ALTITUDE

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

HIGH ALTITUDE BALLOONS

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Thin film strain transducer --- suitable for in-flight
measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

HIGH ALTITUDE ENVIRONMENTS

Method of making a solid propellant rocket motor
Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

HIGH ASPECT RATIO

Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

HIGH FREQUENCIES

Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Filtering technique based on high-frequency plant
modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Method of and apparatus for double-exposure
holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

HIGH GAIN

Filtering technique based on high-frequency plant
modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

HIGH PASS FILTERS

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

HIGH POLYMERS

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486

HIGH POWER LASERS

Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
High power metallic halide laser --- amplifying a copper
chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-1SB] c 25 N86-32540

HIGH PRESSURE

High-temperature, high-pressure spherical segment
valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
High pressure air valve Patent
[NASA-CASE-MS-C-11010] c 15 N71-19485
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234

High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Gas compression apparatus
[NASA-CASE-MS-C-14757-1] c 35 N78-10428
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
Shaft seal assembly for high speed and high pressure
applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Surface conforming thermal/pressure seal --- tail
assemblies of space shuttle orbiters
[NASA-CASE-MS-C-18422-1] c 37 N82-16408
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1CU] c 35 N86-32700
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971

HIGH RESOLUTION

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
High resolution
Fourier
interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13464-1] c 35 N76-31490
High resolution threshold photoelectron spectroscopy
by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Correlation spectrometer having high resolution and
multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

HIGH SPEED

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931
Selective data segment monitoring system --- using shift
registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760
Shaft seal assembly for high speed and high pressure
applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

HIGH SPEED CAMERAS

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

HIGH STRENGTH

Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

HIGH STRENGTH ALLOYS

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
Method of producing refractory composites containing
tantalum carbide, hafnium carbide, and hafnium boride
Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484

HIGH STRENGTH STEELS

Prevention of hydrogen embrittlement of high strength
steel by hydrazine compositions --- by adding potassium
hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Process for making a high toughness-high strength iron
alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271

HIGH TEMPERATURE

High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925

Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Induction furnace with perforated tungsten foil shielding
Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
Thermocouples of molybdenum and iridium alloys for
more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
High thermal power density heat transfer --- thermionic
converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Chemical approach for controlling nadimide cure
temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Multistage spent particle collector and a method for
making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Negative electrode catalyst for the iron chromium redox
energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
Method of making a flexible diaphragm
[NASA-CASE-MS-C-20797-1] c 37 N87-23981

HIGH TEMPERATURE AIR

Apparatus and method for generating large mass flow
of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144

HIGH TEMPERATURE ENVIRONMENTS

High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
Installing fiber insulation
[NASA-CASE-MS-C-16973-1] c 37 N81-14317
Corrosion resistant thermal barrier coating --- protecting
gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
High temperature penetrator assembly with bayonet plug
and ramp-activated lock
[NASA-CASE-MS-C-18526-1] c 37 N82-24494
Fully plasma-sprayed compliant backed ceramic turbine
seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

HIGH TEMPERATURE FLUIDS

Self-cycling fluid heater
[NASA-CASE-MS-C-15567-1] c 33 N73-16918
High-temperature microphone system --- for measuring
pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203

HIGH TEMPERATURE GASES

Instrument for the quantitative measurement of radiation
at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Apparatus and method for generating large mass flow
of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Start up system for hydrogen generator used with an
internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

HIGH TEMPERATURE LUBRICANTS

- Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

HIGH TEMPERATURE PLASMAS

- Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661

HIGH TEMPERATURE PROPELLANTS

- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709

HIGH TEMPERATURE RESEARCH

- Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217

HIGH TEMPERATURE TESTS

- High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

HIGH VACUUM

- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

HIGH VACUUM ORBITAL SIMULATOR

- Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773

HIGH VOLTAGES

- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
- High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
- High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- Coaxial tube tether/transmission line for manned nuclear space power
[NASA-CASE-LEW-14338-1] c 20 N87-10174

HIGHWAYS

- Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888

HINGES

- Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413

- Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N87-18595
- Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N87-18596

HISTOGRAMS

- Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928

HOLDERS

- Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832

HOLE DISTRIBUTION (MECHANICS)

- Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409

HOLE MOBILITY

- Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460

HOLLOW

- Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513

HOLLOW CATHODES

- Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- Hollow cathode apparatus
[NASA-CASE-NPO-15580-1] c 33 N85-21491

HOLOGRAPHIC INTERFEROMETRY

- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929

HOLOGRAPHY

- Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
- Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
- Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
- Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476

- Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
- Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
- Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
- Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
- Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
- Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

HOMING DEVICES

- Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

HONEYCOMB CORES

- Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
- Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541

HONEYCOMB STRUCTURES

- Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
- Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
- Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
- Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
- Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
- Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

HOOP COLUMN ANTENNAS

- Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791

HORIZON SCANNERS

- Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
- Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
- Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
- Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
- Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
- Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

HORIZONTAL SPACECRAFT LANDING

- Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

HORIZONTAL TAIL SURFACES

- Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

HORN ANTENNAS

- Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219

HOSES

- Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
- Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
- Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
- Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
- Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
- Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
- Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

HOSES

- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

HOT CATHODES

- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

HOT PRESSING

- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

HOT WORKING

- Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

HOT-FILM ANEMOMETERS

- Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N87-23587

HOT-WIRE ANEMOMETERS

- Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

HOT-WIRE FLOWMETERS

- Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
- Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

HOUSINGS

- Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
- Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
- Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
- Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
- Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
- Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

HOVERING

- Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

HUBBLE SPACE TELESCOPE

- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817

HUBS

- Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

HUGENIOT EQUATION OF STATE

- Determining particle density using known material Hugoniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810

HULLS (STRUCTURES)

- Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305

HUMAN BEINGS

- Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067

HUMAN BODY

- Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737

HUMAN FACTORS ENGINEERING

- Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
- Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
- Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
- Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
- Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
- EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
- Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
- Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
- Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N87-25765

HUMAN PERFORMANCE

- Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015

HUMAN REACTIONS

- Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114

HUMAN WASTES

- Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
- Automatic bio waste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
- Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

HUMIDITY

- Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

HUMIDITY MEASUREMENT

- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

HYBRID CIRCUITS

- Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N82-28549
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672

HYBRID COMPUTERS

- Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920

HYBRID PROPELLANTS

- Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392

HYDRAULIC CONTROL

- Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
- Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
- Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479

HYDRAULIC EQUIPMENT

- Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
- Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
- Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
- Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
- Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
- Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
- Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
- Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
- Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N87-14705
- Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
- Improved control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N87-24461
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

HYDRAULIC FLUIDS

- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790

HYDRAULIC JETS

- Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398

HYDRAZINE ENGINES

- Reciprocating engines
[NASA-CASE-MSC-18239-1] c 37 N81-32510

HYDRAZINE NITROFORM

- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764

HYDRAZINES

- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

- HYDRIDES**
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
- HYDROCARBON COMBUSTION**
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- HYDROCARBON FUEL PRODUCTION**
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- HYDROCARBON FUELS**
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
- HYDROCARBONS**
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N87-18626
- HYDROCHLORIC ACID**
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- HYDROCHLORIDES**
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- HYDRODYNAMICS**
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- HYDROFOILS**
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
- HYDROFORMING**
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- HYDROGEN**
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MS-13335-1] c 06 N72-31140
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MS-16777-1] c 51 N80-27067
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- HYDROGEN ATOMS**
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- HYDROGEN EMBRITTLEMENT**
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- HYDROGEN ENGINES**
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
- HYDROGEN FUELS**
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
- HYDROGEN IONS**
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- HYDROGEN OXYGEN FUEL CELLS**
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- HYDROGEN PEROXIDE**
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- HYDROGEN PRODUCTION**
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744
- HYDROGENATION**
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
- HYDROLOGY**
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- HYDROLYSIS**
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- HYDROSTATIC PRESSURE**
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-20202-1] c 54 N84-16803
- HYDROSTATICS**
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
- HYDROXIDES**
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- HYDROXYL COMPOUNDS**
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
- HYGIENE**
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MS-18381-1] c 52 N81-28740
- HYGROMETERS**
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- HYGROSCOPICITY**
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
- HYPERFINE STRUCTURE**
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- HYPERGOLIC ROCKET PROPELLANTS**
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
- Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
- HYPERSONIC AIRCRAFT**
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- HYPERSONIC FLIGHT**
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- HYPERSONIC FLOW**
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- HYPERSONIC SPEED**
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Variable geometry manned orbital vehicle Patent
[NASA-CASE-LAR-03691] c 31 N71-15674
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
- HYPERSONIC VEHICLES**
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
- HYPERSONIC WIND TUNNELS**
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- HYPERTHERMIA**
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
- HYPERVELOCITY GUNS**
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
Collapsible pistons
[NASA-CASE-MS-13789-1] c 11 N73-32152
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084
- HYPERVELOCITY IMPACT**
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- HYPERVELOCITY PROJECTILES**
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
- HYPERVELOCITY WIND TUNNELS**
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- HYSTERESIS**
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- IDENTIFYING**
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- IGNITERS**
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-25707-1] c 35 N85-29214
- IGNITION**
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

IGNITION LIMITS

- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
- IGNITION LIMITS**
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- IGNITION SYSTEMS**
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- IGNITION TEMPERATURE**
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
- ILLUMINATORS**
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
- IMAGE CONTRAST**
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
- IMAGE CONVERTERS**
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841
- IMAGE CORRELATORS**
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
- IMAGE DISSECTOR TUBES**
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
- IMAGE ENHANCEMENT**
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
- IMAGE FILTERS**
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
- IMAGE INTENSIFIERS**
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
- IMAGE PROCESSING**
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

- Programmable pipelined image processor
[NASA-CASE-NPO-14641-1CU] c 60 N86-23283
- IMAGE RESOLUTION**
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- IMAGE ROTATION**
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- IMAGE TUBES**
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
- IMAGES**
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- IMAGING TECHNIQUES**
Optical mirror apparatus Patent
[NASA-CASE-ARC-10001] c 23 N71-24868
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679

IMIDES

- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diamino benzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- IMINES**
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- IMMOBILIZATION**
Stretching Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
Active hold-down for heat treating
[NASA-CASE-NPO-16892-1CU] c 37 N87-14704
- IMPACT**
Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- IMPACT ACCELERATION**
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- IMPACT DAMAGE**
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- IMPACT LOADS**
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
- IMPACT RESISTANCE**
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
Integrally-stiffened crash energy-absorbing subfloor beam structure
[NASA-CASE-LAR-13697-1] c 05 N87-25321
- IMPACT STRENGTH**
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- IMPACT TESTING MACHINES**
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- IMPACT TESTS**
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- IMPACT TOLERANCES**
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420

IMPEDANCE

Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887

IMPEDANCE MATCHING

Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809

IMPEDANCE MEASUREMENT

High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

IMPLANTATION

Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

IMPLANTED ELECTRODES (BIOLOGY)

Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

IMPLOSIONS

Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

IMPREGNATING

Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908

IMPULSE GENERATORS

Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

IMPURITIES

Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

IN-FLIGHT MONITORING

System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

INCIDENCE

Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

INCIDENT RADIATION

Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571

INCLINATION

Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

INCOHERENT SCATTERING

Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

INDICATING INSTRUMENTS

Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

INDUCTION

Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756

INDIUM ALLOYS

Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527

INDIUM COMPOUNDS

Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

INDUCTANCE

Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455

INDUCTION HEATING

Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

INDUCTION MOTORS

Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

INDUCTORS

Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

INDUSTRIAL PLANTS

Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457

INDUSTRIAL WASTES

Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

INERT ATMOSPHERE

Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

INERTIA

Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

INERTIAL CONFINEMENT FUSION

Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

INERTIAL GUIDANCE

Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243

INERTIAL NAVIGATION

Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

INERTIAL PLATFORMS

Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

INERTIAL REFERENCE SYSTEMS

Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098

INFLATABLE SPACECRAFT

Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

INFLATABLE STRUCTURES

Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

INFORMATION RETRIEVAL
Multiple hologram recording and readout system
Patent
[NASA-CASE-ERC-10151] c 16 N71-29131

INFRARED DETECTORS
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Sight switch using an infrared source and sensor
Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Multispectral scanner optical system
[NASA-CASE-MS-18255-1] c 74 N80-33210
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

INFRARED INSTRUMENTS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

INFRARED INTERFEROMETERS
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

INFRARED LASERS
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

INFRARED PHOTOMETRY
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1CU] c 76 N87-15883

INFRARED RADIATION
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

INFRARED REFLECTION
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

INFRARED SCANNERS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

INFRARED SPECTRA
Diatom infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N87-15452

INFRARED SPECTROMETERS
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

INFRARED SPECTROSCOPY
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

INFRARED TELESCOPES
Optical system with reflective baffles
[NASA-CASE-FRC-11502-1] c 74 N86-20125

INFRASONIC FREQUENCIES
Resonant infrasonic gauging apparatus
[NASA-CASE-MS-11847-1] c 14 N72-11363

INHIBITORS
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

INITIATORS (EXPLOSIVES)
Missile stage separation indicator and stage initiator
Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MS-21166-1] c 35 N87-25555

INJECTION
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

INJECTION LASERS
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

INJECTORS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Dust particle injector for hypervelocity accelerators
Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

INKS
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

INLET FLOW
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

INLET NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

INLET PRESSURE
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

INOCULATION
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

INORGANIC COATINGS
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

INORGANIC COMPOUNDS
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

INPUT
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

INPUT/OUTPUT ROUTINES
Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345

INSERTION
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSERTS
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736

INSPECTION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698

INSTALLING
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MS-18934-3] c 24 N82-26387
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

INSTRUMENT COMPENSATION
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

INSTRUMENT ERRORS
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

INSTRUMENT ORIENTATION
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Solar energy powered heliostropes
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Processing for producing a sterilized instrument
Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

INSTRUMENTS
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Scientific experiment flexible mount
[NASA-CASE-MS-12372-1] c 31 N72-25842

- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
- Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
- INSULATED STRUCTURES**
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
- INSULATION**
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N87-25478
- INSULATORS**
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- INTAKE SYSTEMS**
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
- INTEGRATED CIRCUITS**
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- INTEGRATORS**
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- INTERFACES**
LDV multiplexer interface
[NASA-CASE-ARC-11536-1] c 33 N85-30202
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N87-18597
- INTERFACIAL TENSION**
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- INTERFEROMETERS**
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
- INTERFEROMETRY**
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- INTERLAYERS**
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- INTERMEDIATE FREQUENCY AMPLIFIERS**
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
- INTERMETALLICS**
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- INTERNAL COMBUSTION ENGINES**
Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N87-15464
- INTERPLANETARY SPACE**
Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- INTERPLANETARY SPACECRAFT**
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- INTERPLANETARY TRAJECTORIES**
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- INTRACRANIAL PRESSURE**
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
- INTRAOCULAR PRESSURE**
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- INTRAVEHICULAR ACTIVITY**
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- INTRAVENOUS PROCEDURES**
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
- INTRUSION**
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
- INVENTIONS**
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- INVERTED CONVERTERS (DC TO AC)**
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874

INVERTERS

- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

INVERTERS

- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
- Module failure isolation circuit for paralleled inverters
--- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

IODINE

- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784

IODINE COMPOUNDS

- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

IODINE ISOTOPES

- Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
- Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

ION ACCELERATORS

- Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959

ION BEAMS

- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N86-32556
- Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- Generation of intense negative ion beams
[NASA-CASE-NPO-18061-1-CU] c 72 N87-21660

ION CHARGE

- Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

ION CONCENTRATION

- Deposition of alloy films --- on irregular shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270

ION CURRENTS

- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

ION CYCLOTRON RADIATION

- Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

ION DENSITY (CONCENTRATION)

- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

ION ENGINES

- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
- Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
- Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
- Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
- Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
- Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

ION EXCHANGE MEMBRANE ELECTROLYTES

- Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ION EXCHANGE RESINS

- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

ION EXCHANGING

- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

ION EXTRACTION

- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- An ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N87-25829

ION IMPLANTATION

- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360

ION IRRADIATION

- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N86-32556

ION MOTION

- Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

ION PLATING

- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

ION PROBES

- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

ION PROPULSION

- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
- Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
- Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

ION PUMPS

- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

ION SOURCES

- Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
- High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
- Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- ION TRAPS (INSTRUMENTATION)**
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- IONIC MOBILITY**
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- IONIZATION**
An ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N87-25829
- IONIZATION CHAMBERS**
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- IONIZATION GAGES**
Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
- IONIZATION POTENTIALS**
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- IONIZED GASES**
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- IONIZERS**
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- IONIZING RADIATION**
High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N86-24840
- IONOSPHERIC DISTURBANCES**
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- IONOSPHERIC ELECTRON DENSITY**
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- IONOSPHERIC SOUNDING**
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- IONS**
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- IRIDIUM**
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- IRISES (MECHANICAL APERTURES)**
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
- IRON**
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- IRON ALLOYS**
Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- IRON CHLORIDES**
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- IRON COMPOUNDS**
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- IRRADIATION**
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- IRRIGATION**
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701
- ISOLATION**
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- ISOLATORS**
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- ISOPROPYL ALCOHOL**
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- ISOTHERMAL LAYERS**
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
- ISOTHERMAL PROCESSES**
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
- ISOTOPE SEPARATION**
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N87-18625
- J**
- JET AIRCRAFT**
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
- JET AIRCRAFT NOISE**
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
- JET AMPLIFIERS**
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
- JET BLAST EFFECTS**
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
- JET CONTROL**
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
- JET ENGINES**
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- JET EXHAUST**
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
- JET FLAPS**
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
- JET FLOW**
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
- JET MIXING FLOW**
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
- JET NOZZLES**
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
- JET PROPULSION**
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
- JET PUMPS**
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- JET THRUST**
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
- JETTISON SYSTEMS**
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- JIGS**
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- JOINING**
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

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JOINTS (ANATOMY)

- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
- Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

JOINTS (JUNCTIONS)

- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
- Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
- Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
- Flexible joint for pressurizable garment
[NASA-CASE-MS-C-11072] c 54 N74-32546
- Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
- Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MS-C-18134-1] c 37 N81-15363
- Reusable captive blind fastener
[NASA-CASE-MS-C-18742-1] c 37 N82-26673
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Fluid leak indicator
[NASA-CASE-MS-C-20783-1] c 35 N86-20756
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
- Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
- Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
- Foldable self-erecting joint
[NASA-CASE-MS-C-20635-1] c 18 N87-14373
- Bearing bypass material testing system
[NASA-CASE-LAR-13458-1] c 35 N87-25556
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713

JOSEPHSON JUNCTIONS

- Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- JOULE-THOMSON EFFECT
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897

JOURNAL BEARINGS

- Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
- Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
- Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
- Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

JUNCTION DIODES

- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399

JUNCTION TRANSISTORS

- Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
- Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- Floating emitter solar cell
[NASA-CASE-NPO-16467-1CU] c 33 N87-23879

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KALMAN FILTERS

- Systolic VLSI array for implementing the Kalman filter Algorithm
[NASA-CASE-NPO-17108-1CU] c 33 N87-27926

KETONES

- Polynamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1CU] c 27 N87-22847

KEYING

- High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
- Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1SB] c 54 N86-22114

KIDNEY DISEASES

- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

KIDNEYS

- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

KINETIC ENERGY

- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

KINETIC FRICTION

- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MS-C-20622-1] c 25 N86-19413

KINETICS

- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

KNEE (ANATOMY)

- Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
- KRAFT PROCESS (WOODPULP)
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

LABORATORY EQUIPMENT

- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
- Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
- Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
- Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
- Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
- Multi-path peristaltic pump
[NASA-CASE-MS-C-20907-1] c 37 N87-18818

LACQUERS

- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MS-C-18107-1] c 27 N81-25209
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

LADDERS

- Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

LAMINAR BOUNDARY LAYER

- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N87-18535

LAMINAR FLOW

- Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

LAMINAR FLOW AIRFOILS

- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

LAMINATES

- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MS-C-12662-1] c 33 N79-12331
- Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170

- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Fire and heat resistant laminating resins based on maleimide and citraconimido substituted 1 -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
- LANDFORMS**
- Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
- LANDING AIDS**
- Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
- Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- LANDING GEAR**
- Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
- Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
- Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
- Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
- Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
- Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
- Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
- LANDING MODULES**
- Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
- LANDING SIMULATION**
- Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
- LANTHANUM COMPOUNDS**
- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- LAP JOINTS**
- Technique for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N87-25577
- LARGE SCALE INTEGRATION**
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
- LARGE SPACE STRUCTURES**
- Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
- Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
- Space spider crane
[NASA-CASE-LAR-13411-1SB] c 18 N87-15259
- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N87-15260
- Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
- Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- LASER ALTIMETERS**
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
- LASER APPLICATIONS**
- High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
- Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
- Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
- Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
- Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753
- High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N87-18625
- Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
- Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- LASER CAVITIES**
- Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- LASER DOPPLER VELOCIMETERS**
- Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
- Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
- Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
- Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
- Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- LDV multiplexer interface
[NASA-CASE-ARC-11536-1] c 33 N85-30202
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N86-24978
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
- Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
- Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
- Frequency domain laser velocimeter signal
[NASA-CASE-LAR-13552-1-CU] c 33 N87-18761
- LASER DRILLING**
- In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- LASER FUSION**
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- LASER GUIDANCE**
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-13228-1] c 36 N82-32712
- LASER GYROSCOPES**
- Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
- Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
- LASER HEATING**
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- LASER INTERFEROMETRY**
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- LASER MATERIALS**
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-1SB] c 25 N86-32540
- LASER MODE LOCKING**
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- Length controlled stabilized mode-lock Nd:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- LASER MODES**
- Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- LASER OUTPUTS**
- Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
- Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009

- Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
- Length controlled stabilized mode-lock Nd:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
- Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
- Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961

LASER PLASMAS

- Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

LASER PUMPING

- Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
- Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542

LASER RANGE FINDERS

- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
- Range and range rate system --- for use with orbiting vehicles during docking and closing maneuvers
[NASA-CASE-MSC-20867-1] c 36 N87-25570

LASER RANGER/TRACKER

- Method and apparatus for aligning a laser beam projector
Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

LASER SPECTROMETERS

- Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

LASER SPECTROSCOPY

- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

LASER WINDOWS

- Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866

LASERS

- Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
- Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
- Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
- Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
- Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
- A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313

- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
- Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

LASING

- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N87-18625

LATCHES

- Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
- Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
- Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
- Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
- Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
- Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

LATERAL CONTROL

- Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
- Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

- Dorsal fin for earth-to-orbit transports
[NASA-CASE-LAR-13127-1] c 18 N87-24524
- LATERAL STABILITY**
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- LATEX**
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- LATHES**
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
- Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
- LAUNCH ESCAPE SYSTEMS**
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
- Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
- LAUNCH VEHICLE CONFIGURATIONS**
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076
- LAUNCH VEHICLES**
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
- Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
- Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
- Earth-to-orbit vehicle providing a reusable orbital stage and method of utilizing same
[NASA-CASE-LAR-13486-1] c 16 N87-29582
- LAUNCHERS**
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- LAUNCHING PADS**
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
- Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
- Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
- LAY-UP**
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- LAYERS**
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
- LEACHING**
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
- Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
- LEAD (METAL)**
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- LEAD SULFIDES**
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
- LEAD TELLURIDES**
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- LEADING EDGE FLAPS**
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- LEADING EDGES**
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242

- Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715
- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- LEAKAGE**
- Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
- Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
- Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
- Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
- Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
- Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
- Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
- Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
- Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
- Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
- Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
- Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
- Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
- Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
- Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
- LEG (ANATOMY)**
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
- Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
- Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
- LENSES**
- High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
- Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
- Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
- Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
- Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
- Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Dual mode laser velocimeter
[NASA-CASE-LAR-11634-1] c 36 N86-24978
- Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
- LENTICULAR BODIES**
- Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
- LEVEL (HORIZONTAL)**
- Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
- Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
- LEVEL (QUANTITY)**
- Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
- Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- LEVELING**
- Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
- Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
- Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
- Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
- LEVITATION**
- Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
- Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
- LEVITATION MELTING**
- High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
- Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
- LIFE (DURABILITY)**
- Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- LIFE DETECTORS**
- Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
- Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
- LIFE RAFTS**
- Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
- Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
- LIFE SUPPORT SYSTEMS**
- Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
- Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
- Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
- Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
- Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
- Air removal device
[NASA-CASE-XLA-8914] c 15 N73-12492
- Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
- Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269
- LIFT**
- Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715
- LIFT DEVICES**
- Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
- Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
- Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
- LIFT DRAG RATIO**
- Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
- Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
- Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- LIFTING BODIES**
- Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
- Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
- Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
- LIFTING REENTRY VEHICLES**
- Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- LIFTING ROTORS**
- High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N87-14282
- LIGANDS**
- Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- LIGHT (VISIBLE RADIATION)**
- Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
- Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
- Depolarization measurement method and device
[NASA-CASE-LAR-13621-1] c 70 N87-25822
- LIGHT AIRCRAFT**
- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- LIGHT BEAMS**
- Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 16 N71-28963
- Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
- Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- LIGHT EMITTING DIODES**
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- LIGHT GAS GUNS**
- Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

LIGHT MODULATION

- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 16 N71-28963
- Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

LIGHT SCATTERING

- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874

LIGHT SCATTERING METERS

- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

LIGHT SOURCES

- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
- Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
- Ultraportable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
- Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941

LIGHT TRANSMISSION

- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
- Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
- Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
- Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
- Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
- Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

LIGHT VALVES

- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LIGHTING EQUIPMENT

- Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
- Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227

- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315

LIGHTNING

- Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
- Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
- Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
- Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N86-26296

LIMBS (ANATOMY)

- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

LIMITER CIRCUITS

- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
- Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
- Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

LINE SPECTRA

- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679

LINEAR ACCELERATORS

- Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

LINEAR ARRAYS

- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

LINEAR CIRCUITS

- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

LINEAR INTEGRATED CIRCUITS

- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

LINEAR POLARIZATION

- Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LINEAR PROGRAMMING

- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

LINEAR RECEIVERS

- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

LINEAR SYSTEMS

- Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
- A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

LINEARITY

- Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
- Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373
- Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
- Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

LININGS

- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
- Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

LINKAGES

- Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

LIQUEFACTION

- Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

LIQUID ATOMIZATION

- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

LIQUID BEARINGS

- High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359

LIQUID CHROMATOGRAPHY

- Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

LIQUID COOLING

- Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
- External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
- Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
- Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
- Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
- Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
- Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
- Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
- Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

LIQUID CRYSTALS

- Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
- Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N87-18535

LIQUID FILLED SHELLS

- Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
- Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
- Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

LIQUID FLOW

- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Liquid junction and method of fabricating the same
Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
- Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
- Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
- Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
- System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MS-C-18936-1] c 35 N83-29652
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

LIQUID HELIUM

- Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
- Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
- Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287

LIQUID HYDROGEN

- Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744
- Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159

LIQUID INJECTION

- Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
- Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
- Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
- Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

LIQUID LASERS

- Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

LIQUID LEVELS

- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500

LIQUID METALS

- Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
- Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

- Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
- Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027

LIQUID NITROGEN

- Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484

LIQUID OXYGEN

- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N86-27467
- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

LIQUID PHASES

- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

LIQUID PROPELLANT ROCKET ENGINES

- Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
- Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
- Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
- Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
- Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
- Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
- Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

LIQUID ROCKET PROPELLANTS

- Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
- Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
- Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
- High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
- High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
- Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
- Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
- Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
- Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017
- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

LIQUID SLOSHING

- Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
- Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

LIQUID SODIUM

- Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

LIQUID-GAS MIXTURES

- Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
- Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
- Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
- Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
- Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
- Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269

LIQUID-SOLID INTERFACES

- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

LIQUID-VAPOR INTERFACES

- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Rotating shaft seal Patent
[NASA-CASE-NPO-02862-1] c 15 N71-26294
- Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

LIQUIDS

- Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
- Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
- Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
- Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
- Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
- Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
- Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
- Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
- Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
- Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
- Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
- Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
- Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
- Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
- Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993

LITHIUM

- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

LITHIUM ALLOYS

- Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

LITHIUM COMPOUNDS

- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

LOAD DISTRIBUTION (FORCES)

- Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705

Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Device for use in loading tension members ---
characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

LOAD TESTING MACHINES

Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Portable 90 degree proof loading device
[NASA-CASE-MS-C-20250-1] c 35 N86-19581
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Bearing bypass material testing system
[NASA-CASE-LAR-13458-1] c 35 N87-25556
Technique for measuring hole elongation in a bolted
joint
[NASA-CASE-LAR-13453-1] c 37 N87-25577

LOAD TESTS

Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fatigue testing a plurality of test specimens and
method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

LOADING OPERATIONS

Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

LOADS (FORCES)

Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Method of improving the reliability of a rolling element
system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Transverse piezoresistance and pinch effect
electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Spring operated accelerator and constant force spring
mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Penetrometer --- for determining load bearing
characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Load regulating latch
[NASA-CASE-MS-C-19535-1] c 37 N77-32499
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

LOCAL AREA NETWORKS

Local area network with fault-checking, priorities and
redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N87-19021

LOCATES SYSTEM

Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

Position determination systems --- using orbital antenna
scan of celestial bodies
[NASA-CASE-MS-C-12593-1] c 17 N76-21250

LOCKING

Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
Variable length strut with longitudinal compliance and
locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Locking hinge
[NASA-CASE-MS-C-21056-1] c 18 N87-18595

LOCKS (FASTENERS)

Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
Bearing and gimbal lock mechanism and spiral flex lead
module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
High temperature penetrator assembly with bayonet plug
and ramp-activated lock
[NASA-CASE-MS-C-18526-1] c 37 N82-24494
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Collect lock joint for space station truss
[NASA-CASE-MS-C-21207-1] c 37 N87-25576

LOCOMOTION

Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Restraint torso for a pressurized suit
[NASA-CASE-MS-C-12397-1] c 05 N72-25119
Kinesimetric method and apparatus
[NASA-CASE-MS-C-18929-1] c 39 N83-20280

LOGARITHMIC RECEIVERS

Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

LOGARITHMS

Logarithmic function generator utilizing an exponentially
varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

LOGIC CIRCUITS

A method for selective gold diffusion of monolithic silicon
devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Data processor having multiple sections activated at
different times by selective power coupling to the sections
Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Parallel generation of the check bits of a PN sequence
Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Adaptive system and method for signal generation
Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836
Four phase logic systems --- including integrated
microcircuits
[NASA-CASE-MS-C-14240-1] c 33 N75-14957
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Logic-controlled occlusive cuff system
[NASA-CASE-MS-C-14836-1] c 52 N82-11770
Combinational logic for generating gate drive signals for
phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Adaptive reference voltage generator for firing angle
control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

LONGERONS

Latching mechanism for deployable/re-stowable
columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Magnetic spin reduction system for free spinning
objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

LONGITUDINAL CONTROL

Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Pitch attitude stabilization system utilizing engine
pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Remote pivot decoupler pylon: Wing/store flutter
suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LONGITUDINAL STABILITY

Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LOOK ANGLES (ELECTRONICS)

Method and apparatus for contour mapping using
synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

LOOP ANTENNAS

Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113

LOOPS

Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
High speed shutter --- electrically actuated ribbon loop
for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Means for accommodating large overstrain in lead wires
--- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Pseudonoise code tracking loop
[NASA-CASE-MS-C-18035-1] c 32 N81-15179
Pulsed phase locked loop strain monitor --- voltage
controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Pumped two-phase heat transfer loop
[NASA-CASE-MS-C-20841-1] c 34 N87-22950

LOUVERS

Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

LOW ASPECT RATIO

Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

LOW COST

Fabrication of polycrystalline solar cells on low-cost
substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for
polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

LOW CURRENTS

Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

LOW DENSITY MATERIALS

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
Intumescent composition, foamed product prepared therefrom and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

LOW FREQUENCIES

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

LOW GRAVITY MANUFACTURING

Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

LOW MOLECULAR WEIGHTS

Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807

LOW NOISE

Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887

LOW PASS FILTERS

Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

LOW PRESSURE

Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

LOW SPEED

Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863

LOW TEMPERATURE

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N86-32570

LOW TEMPERATURE ENVIRONMENTS

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

LOW TEMPERATURE TESTS

Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

LOW THRUST

Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

LOW VACUUM

Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673

LOW VOLTAGE

High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

LOWER BODY NEGATIVE PRESSURE

Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

LUBRICANTS

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

LUBRICATING OILS

Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

LUBRICATION

Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461

LUBRICATION SYSTEMS

Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

LUMINAIRES

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

LUMINANCE

Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

LUMINOUSITY

Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

LUMINOUS INTENSITY

Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LUMPING

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

LUNAR BASES

Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

LUNAR COMMUNICATION

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR COMPOSITION

Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765

LUNAR EXPLORATION

Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR GRAVITATION

Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

LUNAR GRAVITY SIMULATOR

Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

LUNAR LANDING

Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966

LUNAR LOGISTICS

Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

LUNAR ROCKS

Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034

LUNAR SOIL

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011

LUNAR SURFACE VEHICLES

Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

LUNGS

Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

M**MACH NUMBER**

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

MACHINE TOOLS

Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480
Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

MACHINERY

- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
- Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

MACHINING

- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
- Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446

MAGNESIUM

- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM ALLOYS

- Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM OXIDES

- Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095

MAGNET COILS

- Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
- Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MS-C-11277] c 09 N71-29008

MAGNETIC AMPLIFIERS

- Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

MAGNETIC BEARINGS

- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC CHARGE DENSITY

- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC CIRCUITS

- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC COILS

- Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
- Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
- Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC CONTROL

- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
- Low temperature latching solenoid
[NASA-CASE-MS-C-18106-1] c 33 N82-11357

MAGNETIC CORES

- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
- Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
- Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
- Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
- Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800

Magnetic power switch Patent

- [NASA-CASE-NPO-10242] c 09 N71-24803
- Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
- Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
- Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
- Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
- Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928

MAGNETIC DIPOLES

- Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAGNETIC DISKS

- Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

MAGNETIC FIELD CONFIGURATIONS

- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905

MAGNETIC FIELDS

- Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
- Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
- Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
- Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
- Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
- Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
- Balance torque meter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
- Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
- Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
- Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
- Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
- Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
- Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
- Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
- Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Maser cavity servo-tuning system

- [NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MAGNETIC FILMS

- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC FLUX

- Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
- Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
- Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
- Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
- Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
- Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC FORMING

- Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865

MAGNETIC INDUCTION

- Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
- Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
- Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
- Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
- High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

MAGNETIC LENSES

- Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

MAGNETIC MATERIALS

- Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124

MAGNETIC MEASUREMENT

- Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
- Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

MAGNETIC PERMEABILITY

- Linear motion valve
[NASA-CASE-MS-C-20148-1] c 37 N85-29284

MAGNETIC POLES

- Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
- Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
- Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904

Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

MAGNETIC RECORDING
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC SIGNALS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

MAGNETIC STORAGE
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

MAGNETIC SUSPENSION
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

MAGNETIC SWITCHING
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

MAGNETIC TAPE TRANSPORTS
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479

MAGNETIC TAPES
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MS-C-14219-1] c 32 N74-27612
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

MAGNETIC TRANSDUCERS
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

MAGNETIZATION
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

MAGNETO-OPTICS
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205

MAGNETOHYDRODYNAMIC FLOW
Magnetoplasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760

MAGNETOHYDRODYNAMIC GENERATORS
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562

Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573

MAGNETOMETERS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
Improved flux-gate magnetometer
[NASA-CASE-LAR-13560-1] c 35 N86-32701

MAGNETRON SPUTTERING
Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

MAGNETRONS
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

MAGNETS
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Linear motion valve
[NASA-CASE-MS-C-20148-1] c 37 N85-29284

MAGNIFICATION
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124

MAGNITUDE
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAINTENANCE
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Bonding or repairing process
[NASA-CASE-MS-C-12357] c 15 N73-12489
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-C-18736-1] c 24 N83-13172

Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736

MALEATES
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909

MALFUNCTIONS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

MANDRELS
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

MANEUVERABILITY
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

MANGANESE
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MANIFOLDS
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305

MANIPULATORS
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MS-C-14245-1] c 18 N75-27041
Cooperative multi-axis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Space spider crane
[NASA-CASE-LAR-13411-1SB] c 18 N87-15259
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N87-15260
Space station erectable manipulator placement system
[NASA-CASE-MS-C-21096-1] c 18 N87-18596

Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817

MANNED ORBITAL LABORATORIES
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

MANNED ORBITAL RESEARCH LABORATORIES
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

MANNED SPACE FLIGHT
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Air removal device
[NASA-CASE-XLA-8914] c 15 N73-12492

MANNED SPACECRAFT
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

MANOMETERS
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

MANUAL CONTROL
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

MANUFACTURING
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452

Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
The 1-(diorganoxy phosphonyl) methyl-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

MAPPING
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

MAPS
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

MASERS
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MASKING
Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

MASKS
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

MASS
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385

MASS BALANCE
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755

MASS DISTRIBUTION
Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

MASS FLOW
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365

Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262

MASS SPECTROMETERS
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

MASS SPECTROSCOPY
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

MATERIAL ABSORPTION
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

MATERIALS
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

MATERIALS HANDLING
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

MATERIALS RECOVERY
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

MATERIALS SCIENCE

- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486

MATERIALS TESTS

- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
- Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
- Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476

MATHEMATICAL LOGIC

- Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

MATRICES (CIRCUITS)

- Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
- Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
- Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041

MATRIX MATERIALS

- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

MCLEOD GAGES

- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

MEASURING INSTRUMENTS

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
- Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
- Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
- Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
- Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
- Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
- Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
- Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
- Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
- Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
- RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
- Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

- Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
- Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
- Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
- Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
- Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
- Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
- Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
- Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
- Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
- Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
- Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
- Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
- Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
- RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
- Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
- Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
- Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
- Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
- Lighting current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
- Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709

- Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
- Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
- Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
- Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
- Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

MECHANICAL DEVICES

- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
- Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
- Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
- Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
- Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
- Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
- Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
- Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
- Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
- Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
- Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
- Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
- Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
- Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
- Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
- Solar energy powered heliostropes
[NASA-CASE-GSC-10945-1] c 21 N72-31637
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
- Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
- Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014

Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322

Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063

Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392

Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554

Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479

Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482

Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483

Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426

Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655

Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673

Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732

Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560

Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829

Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147

Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649

Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832

MECHANICAL DRIVES

Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260

Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692

Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694

Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805

Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815

Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959

Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518

Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371

Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855

Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060

Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070

Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901

Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266

Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402

Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479

Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482

Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056

Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385

Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183

Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220

Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496

Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118

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Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

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Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587

Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201

Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657

Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489

Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255

Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430

Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

MECHANICAL PROPERTIES

High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368

Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213

Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N87-25475

MECHANICS (PHYSICS)

Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

MECHANIZATION

Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493

MEDICAL ELECTRONICS

Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081

Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612

MEDICAL EQUIPMENT

Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135

Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153

Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078

Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011

Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123

Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716

Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773

Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711

Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785

System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

MELTING

Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125

MELTING POINTS

Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316

Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

MELTS (CRYSTAL GROWTH)

Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

- Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934
- Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
- High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
- MEMBRANE STRUCTURES**
Liquid junction and method of fabricating the same
Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- MEMBRANES**
Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
- Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
- Dialysis system --- using ion exchange resin membranes permeable to large molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
- Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of the thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- MEMORY**
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N87-29799
- MEMORY (COMPUTERS)**
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
- Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
- Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
- MERCURY (METAL)**
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Method of forming ceramic to metal seal Patent
[NASA-CASE-NPO-01263-2] c 15 N71-26312
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- MERCURY VAPOR**
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Rotating shaft seal Patent
[NASA-CASE-NPO-02862-1] c 15 N71-26294
- METABOLIC WASTES**
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- METABOLISM**
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750
- METAL BONDING**
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
- Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N87-15464
- METAL COATINGS**
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- Trialkyl-dihaloantimony and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
- Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
- Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
- Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- METAL COMPOUNDS**
Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
- METAL CUTTING**
Metal shearing energy absorber
[NASA-CASE-HON-10638-1] c 15 N73-30460
- Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
- Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
- Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
- METAL FATIGUE**
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- METAL FIBERS**
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
- METAL FILMS**
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
- Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- METAL FINISHING**
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
- METAL FOILS**
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- METAL FUELS**
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- METAL HALIDES**
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- METAL HYDRIDES**
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- METAL IONS**
Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
- METAL JOINTS**
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
- METAL MATRIX COMPOSITES**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027

- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
- METAL OXIDE SEMICONDUCTORS**
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- METAL OXIDES**
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- METAL PARTICLES**
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- METAL PLATES**
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N87-18779
- METAL POWDER**
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- METAL SHEETS**
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- METAL SHELLS**
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- METAL SPINNING**
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
- METAL SPRAYING**
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- METAL STRIPS**
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
- METAL SURFACES**
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N86-32556
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- METAL VAPOR LASERS**
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- METAL VAPORS**
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- METAL WORKING**
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814

- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
- Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
- Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
- Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- METAL-METAL BONDING**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- METALLIC GLASSES**
- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- METALLIZING**
- Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- METALLOGRAPHY**
- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- METALLOSILOXANE POLYMER**
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
- METALLURGY**
- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- METALS**
- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
- Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N87-29799
- METASTABLE STATE**
- Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- METEORITE COLLISIONS**
- Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- METEORITES**
- Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
- METEORITIC DAMAGE**
- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- METEOROID HAZARDS**
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- METEOROID PROTECTION**
- Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
- Coaxial tube tether/transmission line for manned nuclear space power
[NASA-CASE-LEW-14338-1] c 20 N87-10174
- METEORITIDS**
- Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
- Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131
- METEOROLOGICAL BALLOONS**
- Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007
- METHANE**
- Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
- Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- METHYL ALCOHOL**
- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- METHYL COMPOUNDS**
- Process for producing tris (s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- METHYLENE**
- Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N86-24840
- MICHELSON INTERFEROMETERS**
- Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
- Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
- Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
- Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
- MICROANALYSIS**
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- MICROBALANCES**
- Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
- Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
- MICROBALLOONS**
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- MICROBIOLOGY**
- Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
- Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
- Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
- Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- MICROCHANNELS**
- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- MICROCRACKS**
- System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- MICROELECTRONICS**
- Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
- Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- MICROFIBERS**
- Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431
- MICROFILMS**
- Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
- MICROINSTRUMENTATION**
- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- MICROMETEORITES**
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
- MICROMETEORITIDS**
- Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
- Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
- Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240

- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

MICROMETERS

- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMINIATURIZATION

- Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

MICROORGANISMS

- Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
- Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
- Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

MICROPARTICLES

- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

MICROPHONES

- Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
- High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
- Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

MICROPROCESSORS

- Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
- Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

MICROSCOPES

- Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

MICROSTRIP ANTENNAS

- Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604

MICROSTRIP TRANSMISSION LINES

- Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

MICROSTRUCTURE

- Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
- Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372

- Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419

- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

MICROTHRUST

- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766

MICROWAVE AMPLIFIERS

- Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

MICROWAVE ANTENNAS

- Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
- Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
- Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
- Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
- Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
- Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
- Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
- Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

MICROWAVE CIRCUITS

- Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

MICROWAVE COUPLING

- Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MICROWAVE EQUIPMENT

- Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
- Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
- Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
- Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
- Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

MICROWAVE FILTERS

- High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
- High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

MICROWAVE FREQUENCIES

- Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
- Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
- Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

MICROWAVE OSCILLATORS

- Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

- Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195

MICROWAVE RADIOMETERS

- Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
- Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

MICROWAVE REFLECTOMETERS

- Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
- Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

MICROWAVE RESONANCE

- Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MICROWAVE SWITCHING

- Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
- Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

MICROWAVE TRANSMISSION

- Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
- Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085

MICROWAVE TUBES

- Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208

MICROWAVES

- Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
- Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
- Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
- Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
- Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
- Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

MIDAIR COLLISIONS

- Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

MILLIMETER WAVES

- Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
- Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

MILLING (MACHINING)

- Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
- Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
- Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

MILLING MACHINES

- Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
- Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
- Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

MINERAL DEPOSITS

- Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509

MINERAL METABOLISM

- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737

MINIATURE ELECTRONIC EQUIPMENT

- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
- Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
- Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
- Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

MINIATURIZATION

- Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
- Miniature carbon dioxide sensor and methods
[NASA-CASE-MSF-13332-1] c 14 N72-21408
- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
- Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

MINING

- Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
- Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
- Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

MINORITY CARRIERS

- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

MIRRORS

- Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
- Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
- Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
- Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
- Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Optical range finder having nonoverlapping complete images
[NASA-CASE-MSF-12105-1] c 14 N72-21409
- Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
- Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
- Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSF-12611-1] c 12 N76-15189
- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
- Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
- Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
- Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
- Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
- Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843

MIS (SEMICONDUCTORS)

- Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

MISSILE CONTROL

- Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864

MISSILE LAUNCHERS

- Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353

- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
- MISSILE STRUCTURES**
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

MISSILES

- Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

MITOSIS

- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

MIXERS

- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1CU] c 35 N86-26598
- Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589

MIXING

- Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589

MIXING CIRCUITS

- Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
- Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141

MIXTURES

- Low gravity phase separator
[NASA-CASE-MSF-14773-1] c 35 N78-12390
- Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280

MOBILE COMMUNICATION SYSTEMS

- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1CU] c 32 N87-15390
- Trellis coded modulation for transmission over fading mobile-satellite channel
[NASA-CASE-NPO-16904-1CU] c 32 N87-18691

MOBILITY

- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118

MODE TRANSFORMERS

- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
- Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133

MODEMS

- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

MODES (STANDING WAVES)

- Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086

MODULATION

- Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

MODULATORS

- Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203

MODULES

- Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Shuttle-launch triangular space station
[NASA-CASE-MSF-20676-1] c 18 N86-24729

MODULUS OF ELASTICITY

- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

MOISTURE

- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

MOISTURE CONTENT

- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Moisture content and gas sampling device
[NASA-CASE-MSF-18866-1] c 35 N85-29213
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

MOISTURE METERS

- Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

MOISTURE RESISTANCE

- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282

MOLDING MATERIALS

- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

MOLDS

- Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

MOLECULAR BEAMS

- Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

MOLECULAR CHAINS

- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

MOLECULAR GASES

MOLECULAR GASES

Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

MOLECULAR PUMPS

Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

MOLECULAR RELAXATION

Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

MOLECULAR ROTATION

Diatom infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

MOLECULAR SPECTRA

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

MOLECULAR SPECTROSCOPY

Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MOLECULAR WEIGHT

Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456

Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

MOLECULES

Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826

MOLTEN SALT ELECTROLYTES

Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904

Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

MOLTEN SALTS

Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261

MOLYBDENUM

Thermocouples of molybdenum and indium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

MOLYBDENUM CARBIDES

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

MOLYBDENUM DISULFIDES

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

MOMENTS OF INERTIA

Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

MOMENTUM

Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708

Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

MONATOMIC GASES

Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

MONITORS

Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573

Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026

Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175

Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478

Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319

Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304

Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315

Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

A welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N87-25575

Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862

MONOCHROMATIC RADIATION

Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380

Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

MONOCHROMATORS

Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461

Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109

MONOMERS

Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359

Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256

Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160

Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885

Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis --- synthetic routes to monomers for polyimides
[NASA-CASE-LEW-14345-1] c 23 N87-14432

New condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N87-14433

Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907

Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N87-25475

MONOPOLE ANTENNAS

Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200

Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720

MONOPROPELLANTS

Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249

Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311

Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

MONOPULSE ANTENNAS

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750

Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804

Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

MONOPULSE RADAR

Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483

MONOSTABLE MULTIVIBRATORS

Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016

Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

MORPHOLOGY

Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

MOSSBAUER EFFECT

Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

MOTION

Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

MOTION PICTURES

Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153

Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

MOTION SIMULATORS

Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

MOTION STABILITY

Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

MOTORS

Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313

System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805

Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402

Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

MOUNTING

Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356

Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357

Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813

Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243

Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562

Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284

Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560

Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560

Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982

Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

MOVING TARGET INDICATORS

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

MULTIBEAM ANTENNAS

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N87-29718

MULTICHANNEL COMMUNICATION

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
- MULTILAYER INSULATION**
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
- Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
- Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
- MULTIPACTOR DISCHARGES**
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
- MULTIPATH TRANSMISSION**
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
- Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- MULTIPLE BEAM INTERVAL SCANNERS**
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
- Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
- MULTIPLE DOCKING ADAPTERS**
Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346
- MULTIPLE OUTPUT PROGRAMS**
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
- MULTIPLEXING**
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
- Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
- Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
- Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
- Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
- System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
- Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
- System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
- Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
- LDV multiplexer interface
[NASA-CASE-ARC-11536-1] c 33 N85-30202
- MULTIPLIERS**
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
- Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
- Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
- Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
- MULTISPECTRAL BAND SCANNERS**
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
- Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
- Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
- Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
- MULTISPECTRAL LINEAR ARRAYS**
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
- MULTISPECTRAL PHOTOGRAPHY**
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
- Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
- MULTISPECTRAL TRACKING TELESCOPES**
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459
- MULTISTAGE ROCKET VEHICLES**
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
- Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
- Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
- Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
- Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
- Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
- Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
- MULTIVIBRATORS**
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
- High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
- A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
- Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- MUSCLES**
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- MUSCULAR FUNCTION**
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- MUSCULOSKELETAL SYSTEM**
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
- MYOCARDIUM**
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- MYOPIA**
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
- N**
- N-TYPE SEMICONDUCTORS**
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
- NACELLES**
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- NASA PROGRAMS**
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
- NAVIGATION**
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
- NAVIGATION AIDS**
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
- Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
- NAVIGATION INSTRUMENTS**
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
- Improved flux-gate magnetometer
[NASA-CASE-LAR-13560-1] c 35 N86-32701
- NAVIGATION SATELLITES**
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- NEAR INFRARED RADIATION**
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
- NEGATIVE FEEDBACK**
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
- Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
- NEGATIVE IONS**
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
- NEODYMIUM LASERS**
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- NERVES**
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- NETWORK SYNTHESIS**
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
- High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- NEURAL NETS**
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
- NEUROGLIA**
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
- NEUROLOGY**
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- NEUTRALIZERS**
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- NEUTRON EMISSION**
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

NICKEL

- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
- Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- NICKEL ALLOYS**
- High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
- Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
- Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
- Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
- Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- NICKEL CADMIUM BATTERIES**
- Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
- Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531
- NICKEL COATINGS**
- Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- NICKEL COMPOUNDS**
- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- NICKEL HYDROGEN BATTERIES**
- Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
- NICKEL PLATE**
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- NICKEL ZINC BATTERIES**
- Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- NIOBIUM**
- Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- NIOBIUM COMPOUNDS**
- Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401
- NITRAMINE PROPELLANTS**
- Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
- NITRATES**
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237

NITRIC OXIDE

- Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

NITRIDES

- Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
- Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

NITRIDING

- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N86-32556

NITRILES

- Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
- Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
- Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

NITRO COMPOUNDS

- Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096

NITROAMINES

- Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
- Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

NITROGEN

- III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

NITROGEN COMPOUNDS

- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078

NITROGEN OXIDES

- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

NITROGEN TETROXIDE

- Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094

NITROGUANIDINE

- Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

NOBLE METALS

- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

NODES (STANDING WAVES)

- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

NOISE GENERATORS

- Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582

- Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

- Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575

NOISE METERS

- Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614

- Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867

- Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

NOISE REDUCTION

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

- Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425

- Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582

- Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

- Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

- Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181

- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

- Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568

- Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

- Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453

- Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057

- Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

- Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226

- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418

- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218

- Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117

- Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273

- Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998

- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

- Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

- Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364

- Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871

- Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

- Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605

- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

- Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

- Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235

- NOISE TEMPERATURE**
- Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

- NOISE THRESHOLD**
- Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

- NONADIABATIC CONDITIONS**
- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

- NONDESTRUCTIVE TESTS**
- Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613

- Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

- Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

- Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

- Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124

- Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515

Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126

Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N87-14676

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

NONEQUILIBRIUM CONDITIONS
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

NONEQUILIBRIUM PLASMAS
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

NONEQUILIBRIUM RADIATION
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

NONFLAMMABLE MATERIALS
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

NONLINEAR FEEDBACK
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373

NONLINEAR FILTERS
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

NONLINEAR SYSTEMS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272

Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594

Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222

Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

NORMAL DENSITY FUNCTIONS
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

NOSE CONES
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637

Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

NOSE FINS
Dorsal fin for earth-to-orbit transports
[NASA-CASE-LAR-13127-1] c 18 N87-24524

NOSE WHEELS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

NOTCH STRENGTH
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

NOTCH TESTS
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131

Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOTCHES
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOZZLE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284

Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711

Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899

Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637

Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660

Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224

Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330

Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065

Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

Variable area exhaust nozzle
[NASA-CASE-XLE-12378-1] c 07 N79-14097

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371

Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376

NOZZLE FLOW
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582

Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

NOZZLE GEOMETRY
Method of making a rocket nozzle
[NASA-CASE-XMF-06864-1] c 20 N79-21123

NOZZLE INSERTS
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

NUCLEAR EXPLOSION EFFECT
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

NUCLEAR FUEL ELEMENTS
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528

NUCLEAR MAGNETIC RESONANCE
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

NUCLEAR POWER PLANTS
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

NUCLEAR PUMPED LASERS
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

NUCLEAR PUMPING
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

NUCLEAR REACTOR CONTROL
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913

NUCLEAR REACTORS
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

NUCLEATE BOILING
Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277

NULL ZONES
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

NUMBER THEORY
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850

NUMERICAL ANALYSIS

Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

NUMERICAL CONTROL

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790

NUMERICAL INTEGRATION

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

NUTATION

Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513

NUTATION DAMPERS

Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719

Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

NUTS (FASTENERS)

Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489

Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976

Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

O**O RING SEALS**

High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497

Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790

OBLIQUE WINGS

Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217

OCCCLUSION

Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

OCEAN CURRENTS

Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

OCEAN DATA ACQUISITIONS SYSTEMS

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

OCEAN SURFACE

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

OCEAN THERMAL ENERGY CONVERSION
Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

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ODORS

Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561

OFFSHORE PLATFORMS

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

OHMMETERS

Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Four-terminal electrical testing device --- initiator
bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

OIL EXPLORATION

Underwater seismic source --- for petroleum
exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709

OIL RECOVERY

Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

OILS

Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308

OMNIDIRECTIONAL ANTENNAS

Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Omnidirectional slot antenna for mounting on cylindrical
space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

ONBOARD EQUIPMENT

Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114

OPEN CHANNEL FLOW

Monogroove heat pipe design: Insulated liquid channel
with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180

OPERATING TEMPERATURE

Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579

OPERATIONAL AMPLIFIERS

Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

OPHTHALMOLOGY

Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

OPTICAL COMMUNICATION

Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Optical frequency waveguide and transmission system
Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Optical communications system Patent
[NASA-CASE-XLA-01090] c 16 N71-28963
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication
system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Fiber optic crossbar switch for automatically patching
optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Synchronization tracking in pulse position modulation
receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
Optical data transfer system for crossing a rotary joint
[NASA-CASE-LAR-13613-1-SB] c 74 N87-24984

OPTICAL COUPLING

Automatic quadrature control and measuring system ---
using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749

OPTICAL DATA PROCESSING

Optical data processing using paraboloidal mirror
segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Recorder/processor apparatus --- for optical data
processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
Multibeam single frequency synthetic aperture radar
processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Real-time multiple-look synthetic aperture radar
processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Multibeam single frequency synthetic aperture radar
processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N87-19064

OPTICAL DENSITY

Medical diagnosis system and method with multispectral
imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862

OPTICAL EMISSION SPECTROSCOPY

Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

OPTICAL EQUIPMENT

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Combined optical attitude and
altitude indicating
instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Petzval type objective including field shaping lens
Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Method of coating solar cell with borosilicate glass and
resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Bore scope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Star tracking reticles and process for the production
thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741

Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Method and apparatus for optically monitoring the
angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Single reflector interference spectrometer and drive
system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Strain gauge ambiguity sensor for segmented mirror
active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Optical instrument employing reticle having preselected
visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Opto-mechanical subsystem with temperature
compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Method and apparatus for producing an image from a
transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
Process for producing a well-adhered durable optical
coating on an optical plastic substrate --- abrasion resistant
polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
Rhomboid prism pair for rotating the plane of parallel
light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971

OPTICAL FILTERS

High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Method and apparatus for eliminating coherent noise
in a coherent energy imaging system without destroying
spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Optical noise suppression device and method --- laser
light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Method and apparatus for making an optical element
having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

OPTICAL GYROSCOPES

Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

OPTICAL HETERODYNING

Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication
system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

OPTICAL MEASUREMENT

Passive optical wind and turbulence detection system
Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Ellipsoidal mirror reflectometer including means for
averaging the radiation reflected from the sample
Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Single reflector interference spectrometer and drive
system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
- Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
- Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
- OPTICAL MEASURING INSTRUMENTS**
- Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
- Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
- Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
- Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
- Multiparameter vision testing apparatus
[NASA-CASE-MS-C-13601-2] c 54 N75-27759
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
- Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-C-18627-1] c 74 N82-30071
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
- Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
- OPTICAL PATHS**
- Optical instruments
[NASA-CASE-MS-C-14096-1] c 74 N74-15095
- Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- OPTICAL PROPERTIES**
- Optical torqueometer Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
- Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
- Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- OPTICAL PUMPING**
- Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- Stabilization of He2(a 3 Sigma u+) molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- OPTICAL PYROMETERS**
- Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
- OPTICAL RADAR**
- Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
- OPTICAL RANGE FINDERS**
- Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
- Optical range finder having nonoverlapping complete images
[NASA-CASE-MS-C-12105-1] c 14 N72-21409
- OPTICAL REFLECTION**
- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
- Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- OPTICAL RESONANCE**
- Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- OPTICAL SCANNERS**
- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
- Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
- Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
- Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
- Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- Optical instruments
[NASA-CASE-MS-C-14096-1] c 74 N74-15095
- Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
- Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
- Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
- OPTICAL TRACKING**
- Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
- Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
- OPTICAL TRANSFER FUNCTION**
- Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
- OPTICAL WAVEGUIDES**
- Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
- Optical data transfer system for crossing a rotary joint
[NASA-CASE-LAR-13613-1-SB] c 74 N87-24984
- OPTIMIZATION**
- Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
- OPTOGALVANIC SPECTROSCOPY**
- Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753
- ORAL HYGIENE**
- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- ORBIT TRANSFER VEHICLES**
- Tanker orbit transfer vehicle and method
[NASA-CASE-MS-C-20543-1] c 18 N84-22610
- ORBITAL ASSEMBLY**
- Structural members, method and apparatus
[NASA-CASE-MS-C-16217-1] c 31 N81-27323
- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- Space spider crane
[NASA-CASE-LAR-13411-1SB] c 18 N87-15259
- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N87-15260
- Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N87-25586
- ORBITAL LAUNCHING**
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- ORBITAL MANEUVERING VEHICLES**
- Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- ORBITAL MANEUVERS**
- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- ORBITAL MECHANICS**
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MS-C-12391] c 30 N73-12884
- ORBITAL SERVICING**
- Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- Tanker orbit transfer vehicle and method
[NASA-CASE-MS-C-20543-1] c 18 N84-22610
- Shuttle-launch triangular space station
[NASA-CASE-MS-C-20676-1] c 18 N86-24729
- Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N87-25583
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- ORBITAL SPACE STATIONS**
- Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
- Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
- Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
- Shuttle-launch triangular space station
[NASA-CASE-MS-C-20676-1] c 18 N86-24729
- Collect lock joint for space station truss
[NASA-CASE-MS-C-21207-1] c 37 N87-25576
- ORGANIC CHEMISTRY**
- Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- ORGANIC COMPOUNDS**
- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MS-C-14428-1] c 23 N77-17161
- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MS-C-16497-1] c 25 N82-12166
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Amine terminated bisaspartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

ORGANIC MATERIALS

ORGANIC MATERIALS

Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N86-24840

ORGANIC SILICON COMPOUNDS

Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N87-10205

ORGANIC SULFUR COMPOUNDS

Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

ORGANOMETALLIC COMPOUNDS

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive
Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090

Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808

Carboranymethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

ORGANOMETALLIC POLYMERS

Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

ORIFICE FLOW

Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924

ORIFICES

Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

ORTHO HYDROGEN

Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

ORTHO PARA CONVERSION

Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

ORTHOGONAL MULTIPLEXING THEORY

Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

ORTHOGONALITY

Floating two force component measuring device
Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

ORTHOPEDICS

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

ORTHOTROPIC CYLINDERS

Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658

Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

OSCILLATION DAMPERS

Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894

Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729

Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146

Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333

OSCILLATIONS

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

OSCILLATORS

Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461

Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418

Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

Signal ratio system utilizing voltage controlled oscillators
Patent
[NASA-CASE-XMF-04367] c 09 N71-23545

Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899

Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271

Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810

Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254

Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194

Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862

LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MSC-21698-1] c 33 N74-26732

Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351

Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

OSCILLOSCOPES

Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365

Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172

Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322

X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517

OUTER PLANETS EXPLORERS

Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

OUTGASSING

Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365

Process for glass coating an ion accelerator grid
Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582

Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100

OUTLET FLOW

Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639

Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

OUTPUT

Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373

Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

Auxiliary data input device
[NASA-CASE-LAR-13626-1] c 37 N87-25584

OVENS

Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871

Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431

OVERPRESSURE

Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

OVERVOLTAGE

Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897

Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129

Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929

Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377

OXAZOLE

Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262

Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

OXIDATION

Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086

Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704

Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225

Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358

Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

OXIDATION RESISTANCE

Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B
Patent
[NASA-CASE-XLE-02082] c 17 N71-16026

Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261

Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408

High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217

High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213

Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457

Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569

Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482

Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

OXIDATION-REDUCTION REACTIONS

Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

OXIDE FILMS

Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388

Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458

Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

OXIDES

Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

OXIDIZERS

Electrolytically regenerative hydrogen-oxygen fuel cell
Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843

- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
- OXYMETRY**
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
- OXYGEN**
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
- OXYGEN ATOMS**
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
- OXYGEN CONSUMPTION**
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
- OXYGEN FLUORIDES**
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
- OXYGEN ISOTOPIES**
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-1SB] c 25 N86-32540
- OXYGEN METABOLISM**
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728
- OXYGEN PLASMA**
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
- OXYGEN PRODUCTION**
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744
- OXYGEN RECOMBINATION**
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-1SB] c 25 N86-32540
- OXYGEN REGULATORS**
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- OXYGEN SUPPLY EQUIPMENT**
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
- OZONE**
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- P**
- P-I-N JUNCTIONS**
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- P-N JUNCTIONS**
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- P-TYPE SEMICONDUCTORS**
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- PACKAGES**
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
- PACKAGING**
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- PACKET TRANSMISSION**
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
- PACKING DENSITY**
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- PACKINGS (SEALS)**
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
- PAID**
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
- PAINTS**
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
- PALLADIUM**
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- PALLADIUM COMPOUNDS**
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140
- PANELS**
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
Truss-core corrugation for compression loads
[NASA-CASE-LAR-13438-1] c 31 N87-25496
- PAPER (MATERIAL)**
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
- PAPERS**
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- PARA HYDROGEN**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- PARABOLIC ANTENNAS**
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- PARABOLIC REFLECTORS**
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- PARABOLOID MIRRORS**
Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
- PARACHUTE DESCENT**
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
- PARACHUTE FABRICS**
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
- PARACHUTES**
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014

PARAGLIDERS

- System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

PARAGLIDERS

- Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

PARALLAX

- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PARALLEL PLATES

- Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

PARALLEL PROCESSING (COMPUTERS)

- Digital data reformatter/serializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

PARAMETRIC AMPLIFIERS

- Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

PARAMETRIC FREQUENCY CONVERTERS

- Method and apparatus for quadruphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

PARAWINGS

- Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

PARKING

- Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

PARTIAL PRESSURE

- Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

PARTICLE ACCELERATION

- Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Dust particle injector for hypervelocity accelerators
Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

PARTICLE ACCELERATOR TARGETS

- Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

PARTICLE BEAMS

- Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

PARTICLE COLLISIONS

- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
An ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N87-25829

PARTICLE DENSITY (CONCENTRATION)

- Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332

PARTICLE EMISSION

- Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

PARTICLE ENERGY

- Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

PARTICLE MASS

- Cosmic dust analyzer
[NASA-CASE-MS-C-13802-2] c 35 N76-15431
Microbalance --- for measuring particle mass
[NASA-CASE-MS-C-11242] c 35 N78-17358

PARTICLE MOTION

- Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

PARTICLE PRODUCTION

- Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

PARTICLE SIZE DISTRIBUTION

- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Grain refinement control in TIG arc welding
[NASA-CASE-MS-C-19095-1] c 37 N75-19683
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

PARTICLE TRAJECTORIES

- Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

PARTICLES

- Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

PARTICULATE SAMPLING

- Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

PARTICULATES

- Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

PASSAGEWAYS

- Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

PASSENGERS

- Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

PASSIVE SATELLITES

- Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052

PATENTS

- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

PATIENTS

- Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

PATTERN RECOGNITION

- Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N86-23283
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N87-19064

PAYLOAD DELIVERY (STS)

- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

PAYLOAD RETRIEVAL (STS)

- Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

PAYLOADS

- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

PCM TELEMETRY

- Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197

PEELING

- Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

PEENING

- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

PELLETS

- Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

Peltier Effects

- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

PELVIS

- Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

PENETRANTS

- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

PENETRATION

- Method and device for detection of surface discontinuities or defects
[NASA-CASE-MS-C-14187-1] c 35 N74-32879
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

PENETROMETERS

- Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

PERCEPTION

- Method for measuring cutaneous sensory perception
[NASA-CASE-MS-C-13609-1] c 05 N72-25122

PERFLUORO COMPOUNDS

- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
- Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
- Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
- Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
- Polymerizable disilanol having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
- Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides)
[NASA-CASE-MFS-22356-1] c 23 N75-30256
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

PERFLUOROALKANE

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

PERFORATED PLATES

- Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582

PERFORATED SHELLS

- Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

PERFORMANCE PREDICTION

- Failure detection and control means for improved drift performance of a gimbalized platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

PERFORMANCE TESTS

- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
- Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
- Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

PERIODIC VARIATIONS

- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

PERIPHERAL EQUIPMENT (COMPUTERS)

- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

PERISCOPES

- A welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N87-25575

PERMEABILITY

- Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

PEROXIDES

- Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

PERSPIRATION

- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

PERTURBATION

- Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

PERTURBATION THEORY

- Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783

PH FACTOR

- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHASE COHERENCE

- Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
- Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

PHASE CONTRAST

- Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

PHASE CONTROL

- Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
- Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
- Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

PHASE DEMODULATORS

- Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

PHASE DETECTORS

- Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
- Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
- High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
- Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
- Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
- Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692

PHASE DEVIATION

- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

PHASE LOCK DEMODULATORS

- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859

PHASE LOCKED SYSTEMS

- Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
- Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
- Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
- Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
- Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
- Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
- Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
- Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
- Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
- Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
- Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
- Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
- Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
- Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
- Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
- Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
- PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
- Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
- Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531

PHASE MODULATION

- Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
- Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
- Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
- Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
- Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

PHASE SHIFT

- Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
- Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
- Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MS-C-18675-1] c 32 N84-22820
- Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MS-C-16170-2] c 32 N84-27952
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

PHASE SHIFT

- Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
- Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
- Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

PHASE SHIFT CIRCUITS

- Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
- Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
- Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
- Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
- Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
- Pseudonoise code tracking loop
[NASA-CASE-MS-C-18035-1] c 32 N81-15179
- Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

PHASE SHIFT KEYING

- Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
- Differential phase shift keyed communication system
[NASA-CASE-MS-C-14065-1] c 32 N74-26654
- Differential phase shift keyed signal resolver
[NASA-CASE-MS-C-14066-1] c 33 N74-27705
- Unbalanced quadrature demodulator
[NASA-CASE-MS-C-14840-1] c 32 N77-24331
- Method and apparatus for quadrature phase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- Trellis coded modulation for transmission over fading mobile-satellite channel
[NASA-CASE-NPO-16904-1-CU] c 32 N87-18691

PHASE SWITCHING INTERFEROMETERS

- Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

PHASE TRANSFORMATIONS

- Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02093] c 03 N69-39983
- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159

PHASE VELOCITY

- Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432

PHASED ARRAYS

- Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
- Phased array antenna control
[NASA-CASE-MS-C-14939-1] c 32 N79-11264
- Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
- Coaxial phased array antenna
[NASA-CASE-MS-C-16800-1] c 32 N81-14187
- Spiral slotted phased antenna array
[NASA-CASE-MS-C-18532-1] c 32 N82-27558
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

PHENOLIC RESINS

- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909

PHENOLS

- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235

PHENYLS

- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

PHONOCARDIOGRAPHY

- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234

PHOSPHATES

- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

PHOSPHAZENE

- Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Carboranyl methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909

PHOSPHINES

- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-C-14903-1] c 27 N78-32256
- Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MS-C-14903-2] c 27 N80-10358
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-C-14903-3] c 27 N80-24438
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347

PHOSPHONITRILES

- Metal containing polymers from cyclic tetrameric phenylphosphonitridamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

PHOSPHORS

- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831

PHOSPHORUS

- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280

PHOSPHORUS COMPOUNDS

- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

PHOSPHORUS POLYMERS

- Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347

PHOTOABSORPTION

- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

PHOTOCATHODES

- Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
- III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

PHOTOCHEMICAL REACTIONS

- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MS-C-16074-1] c 27 N80-26446

PHOTOCONDUCTIVE CELLS

- Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

PHOTOCONDUCTIVITY

- Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094

PHOTOCONDUCTORS

- Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480

PHOTODIODES

- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

PHOTODISSOCIATION

- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

PHOTOELECTRIC CELLS

- Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

PHOTOELECTRIC EFFECT

- Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
- High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

PHOTOELECTRIC MATERIALS

- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

- Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- PHOTOELECTRICITY**
Photoelectrochemical cells including
chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- PHOTOELECTROCHEMICAL DEVICES**
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- PHOTOELECTRON SPECTROSCOPY**
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- PHOTOGRAPHIC EMULSIONS**
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- PHOTOGRAPHIC EQUIPMENT**
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
- PHOTOGRAPHIC FILM**
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
- PHOTOGRAPHIC MEASUREMENT**
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- PHOTOGRAPHIC PROCESSING**
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
- PHOTOGRAPHIC PROCESSING EQUIPMENT**
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
- PHOTOGRAPHIC RECORDING**
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- PHOTOGRAPHY**
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
- PHOTOIONIZATION**
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
- PHOTOLYSIS**
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
- PHOTOMAPPING**
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
- PHOTOMASKS**
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
- PHOTOMECHANICAL EFFECT**
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- PHOTOMETERS**
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
- PHOTOMICROGRAPHY**
Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
- PHOTOMULTIPLIER TUBES**
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
- PHOTON BEAMS**
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- PHOTON-ELECTRON INTERACTION**
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- PHOTONS**
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- PHOTOSENSITIVITY**
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Photoelectrochemical cells including
chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- PHOTOTRANSISTORS**
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
- PHOTOTROPISM**
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- PHOTOVISCOELASTICITY**
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
- PHOTOVOLTAIC CELLS**
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Combination photovoltaic-heat engine energy converter
[NASA-CASE-LEW-14252-1] c 44 N87-25630
- PHOTOVOLTAIC CONVERSION**
Photoelectrochemical cells including
chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- PHOTOVOLTAIC EFFECT**
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616

PHTHALATES

- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441

PHTHALATES

- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

PHTHALOCYANIN

- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

PHYSICAL EXERCISE

- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785

PHYSICAL PROPERTIES

- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993

PHYSIOLOGICAL EFFECTS

- Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

PHYSIOLOGICAL TESTS

- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

PHYSIOLOGY

- Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891

PIERCING

- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996

PIEZOELECTRIC CRYSTALS

- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

PIEZOELECTRIC TRANSDUCERS

- Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671

PIEZOELECTRICITY

- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

PIEZORESISTIVE TRANSDUCERS

- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

PIGMENTS

- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

PILOT TRAINING

- Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

PILOTS (PERSONNEL)

- System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483

PINCH EFFECT

- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

PINHOLE CAMERAS

- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

PINS

- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

PINTLES

- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648

PIPE FLOW

- Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180

PIPELINES

- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

PIPELINING (COMPUTERS)

- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N86-23283
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Convolver
[NASA-CASE-NPO-16462-1CU] c 60 N86-24225

PIPES (TUBES)

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287

Honeycomb panels formed of minimal surface periodic tubule layers

- [NASA-CASE-ERC-10364] c 18 N72-25540
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

PISTON ENGINES

- Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

PISTONS

- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N87-15464
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742

PITCH (INCLINATION)

- Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

PITCHING MOMENTS

- High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N87-14282

PIVOTS

- Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

PLANAR STRUCTURES
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764

PLANE WAVES
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

PLANETARY ATMOSPHERES
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991

PLANETARY GRAVITATION
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

PLANETARY LANDING
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

PLANETARY ORBITS
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

PLANETARY RADIATION
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

PLANETARY SURFACES
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

PLANTS (BOTANY)
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

PLASMA ACCELERATION
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

PLASMA ACCELERATORS
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

PLASMA CONTROL
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA CYLINDERS
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519

PLASMA DENSITY
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

PLASMA DIAGNOSTICS
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA DYNAMICS
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA ENGINES
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694

PLASMA GENERATORS
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

PLASMA GUNS
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610

PLASMA JETS
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

PLASMA LAYERS
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

PLASMA POTENTIALS
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

PLASMA PROBES
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

PLASMA PROPULSION
Method of making dish ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

PLASMA RADIATION
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

PLASMA SHEATHS
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

PLASMA SPRAYING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

PLASMA TEMPERATURE
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA-ELECTROMAGNETIC INTERACTION
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

PLASMAS (PHYSICS)
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

PLASMONS
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

PLASTIC COATINGS
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

PLASTIC DEFORMATION
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

PLASTIC TAPES
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

PLASTICIZERS
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

PLASTICS
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

PLATENS
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

PLATES (STRUCTURAL MEMBERS)
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
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[NASA-CASE-FRC-10081-1] c 37 N77-14477
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[NASA-CASE-GSC-12171-1] c 33 N79-28416
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

PLATFORMS
Expandable pallet for space station interface attachments
[NASA-CASE-MS-C-21117-1] c 18 N87-18597

PLATING
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

PLATINUM
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Platinum resistance thermometer circuit
[NASA-CASE-MS-C-12327-1] c 35 N77-27368

PLATINUM ALLOYS
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

PLAYBACKS
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

PLENUM CHAMBERS
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[NASA-CASE-MFS-14685] c 31 N71-15689
Gas filter mounting structure
[NASA-CASE-MS-C-12297] c 14 N72-23457
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568

PLETHYSMOGRAPHY
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Apparatus for determining changes in limb volume
[NASA-CASE-MS-C-18759-1] c 52 N83-27578

PLOTTERS
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

PLOTTING
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

PLUG NOZZLES
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

PLUGS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MS-C-18526-1] c 37 N82-24494
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N87-25559

PNEUMATIC CONTROL
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Foot pedal operated fluid type exercising device
[NASA-CASE-MS-C-11561-1] c 05 N73-32014
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

PNEUMATIC EQUIPMENT
High pressure air valve Patent
[NASA-CASE-MS-C-11010] c 15 N71-19485

Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045

Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

Pneumatic amplifier Patent
[NASA-CASE-MS-C-12121-1] c 15 N71-27147

Life raft stabilizer
[NASA-CASE-MS-C-12393-1] c 02 N73-26006

Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136

Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

Gas-to-hydraulic power converter
[NASA-CASE-MS-C-18794-1] c 44 N83-14693

System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

POINT SOURCES
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

POINTING CONTROL SYSTEMS
Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229

All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372

Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

POINTS (MATHEMATICS)
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

POLAR ORBITS
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

POLARIMETERS
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101

Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

POLARITY
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239

Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

POLARIZATION (WAVES)
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982

Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

POLARIZED ELECTROMAGNETIC RADIATION
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219

Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382

Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261

Coaxial phased array antenna
[NASA-CASE-MS-C-16800-1] c 32 N81-14187

Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

POLARIZED LIGHT
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053

Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

POLARIZED RADIATION
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

POLARIZERS
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891

Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

POLES
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

POLISHING
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705

Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

POLLUTION CONTROL
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457

Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497

Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

POLLUTION MONITORING
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585

Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656

Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742

Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714

Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

POLYAMIDE RESINS
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MS-C-16074-1] c 27 N80-26446

Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746

Heat resistant protective hand covering
[NASA-CASE-MS-C-20261-1] c 54 N84-28484

Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123

Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

Fire and heat resistant laminating resins based on maleimide and citraconimide substituted 1,2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751

POLYBENZIMIDAZOLE
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-LAR-11008-1] c 27 N78-31232

POLYBUTADIENE
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251

Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

POLYCARBONATES
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190

Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841

POLYCRYSTALS
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635

Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609

- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
- Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
- POLYESTERS**
- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N86-26435
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
- Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
- POLYETHER RESINS**
- Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Phenoxyl resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N86-26435
- POLYIMIDE RESINS**
- Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
- Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
- Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
- POLYIMIDES**
- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
- Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Poly(carbonate-imide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Process for preparing essentially colorless polyimide film containing phenoxyl-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis --- synthetic routes to monomers for polyimides
[NASA-CASE-LEW-14345-1] c 23 N87-14432
- New condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N87-14433
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
- POLYISOBUTYLENE**
- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- POLYISOPRENES**
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- POLYMER CHEMISTRY**
- Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Synthesis of siloxane-containing epoxy polymers
[NASA-CASE-MFS-13994-1] c 06 N71-11240
- Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
- Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
- Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
- Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
- Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
- Bifunctional monomers having terminal oxime and cyano or amide groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Process for the preparation of polycarbonarylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- Amine terminated bisaspartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis --- synthetic routes to monomers for polyimides
[NASA-CASE-LEW-14345-1] c 23 N87-14432
- New condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N87-14433
- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- POLYMER MATRIX COMPOSITES**
- Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
- Copolymer of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- POLYMERIC FILMS**
- Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-LEW-07659] c 06 N71-22975
- Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
- Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
- Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561

- Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

POLYMERIZATION

- New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
- Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
- Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
- Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
- Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
- Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
- Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
- Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
- Perfluoroalkyl polytriazines containing pendent iodo difluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

- Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
- Carboranyl/methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N86-24840
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
- New condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N87-14433
- The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
- Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
- Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

POLYMERS

- Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620

- Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
- Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- Carboranyl/methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

POLYMETHYL METHACRYLATE

- Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854

POLYPHENYL ETHER

- Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749

POLYPHENYLS

- Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
- Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N87-25475

POLYQUINOXALINES

- Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N87-25475

POLYSACCHARIDES

- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

POLYTETRAFLUOROETHYLENE

- Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

POLYURETHANE FOAM

- Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
- Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

POLYURETHANE RESINS

- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144

- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
- POLYVINYL ALCOHOL**
- In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- PONDS**
- Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
- PORCELAIN**
- Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
- POROSITY**
- Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N87-25559
- POROUS MATERIALS**
- Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
- Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
- Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
- Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- POROUS PLATES**
- Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- PORPHYRINS**
- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
- PORTABLE EQUIPMENT**
- Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
- Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
- One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
- Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
- Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
- Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
- System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
- Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454
- Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
- Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
- Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
- Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
- Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
- PORTABLE LIFE SUPPORT SYSTEMS**
- Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
- PORTS (OPENINGS)**
- Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- POSITION (LOCATION)**
- Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
- Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
- Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
- Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
- Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
- Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
- X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
- Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
- POSITION INDICATORS**
- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
- Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
- Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
- Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-XGS-10087-4] c 07 N73-20174
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
- Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
- Improved legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N85-20226
- Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- POSITION SENSING**
- Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
- POSITIONING**
- Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
- POSITIONING DEVICES (MACHINERY)**
- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
- Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
- Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
- Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
- Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
- Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
- POSITIVE FEEDBACK**
- Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
- POTABLE WATER**
- Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
- Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
- Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
- Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
- Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- Degassing and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

POTASSIUM SILICATES

Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014

POTENTIOMETERS

Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

POTENTIOMETERS (INSTRUMENTS)

Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073

Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809

Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952

Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

POTTING COMPOUNDS

Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409

Flexible, repairable, portable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881

Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

POWDER (PARTICLES)

Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

POWDER METALLURGY

Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076

Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137

Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121

Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448

Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465

Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521

Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179

Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

POWDERED ALUMINUM

Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

POWER AMPLIFIERS

Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559

Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961

Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430

Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

POWER CONDITIONING

Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254

Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472

Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492

POWER CONVERTERS

Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693

POWER EFFICIENCY

Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317

Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329

Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576

Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007

Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475

Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742

Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190

Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424

Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886

Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769

Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088

CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596

Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524

Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

Coaxial tube tether/transmission line for manned nuclear space power
[NASA-CASE-LEW-14338-1] c 20 N87-10174

Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693

Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177

Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698

Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391

High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330

Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888

Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798

Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055

Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486

Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449

Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961

Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543

Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892

Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893

Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338

Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407

High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606

Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253

LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732

Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428

Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913

Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179

Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330

Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395

Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190

Arc lamp power supply
[NASA-CASE-LAR-13202-1] c 33 N86-32626

POWER TRANSMISSION (LASERS)

Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

PRECESSION

Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

PRECIPITATION (CHEMISTRY)

Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502

PRECIPITATORS

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

PRECISION

Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

PREFLIGHT OPERATIONS

Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545

PREFORMS

Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656

PRELAUNCH TESTS

Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521

Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

PREPOLYMERS

Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929

Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514

Polymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515

Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999

Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240

Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

PREPREGS

Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229

PRESSURE

Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430

PRESSURE CHAMBERS

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344

PRESSURE DISTRIBUTION

Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

PRESSURE DRAG

A multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N87-25320

PRESSURE DROP

Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931

PRESSURE EFFECTS

System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559

PRESSURE GAGES

Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

PRESSURE GRADIENTS

Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680

PRESSURE HEADS

Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482

PRESSURE MEASUREMENT

Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232

Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N87-25559
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884

PRESSURE REDUCTION

Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

PRESSURE REGULATORS

Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Flow diverter valve and flow diversion method
[NASA-CASE-HCN-00573-1] c 37 N79-33468
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660

Fluid driven sump pump
[NASA-CASE-ARC-11414-1] c 37 N83-20152
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

PRESSURE SENSORS

Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N87-25559

PRESSURE SUITS

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335

- Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
- Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
- Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
- Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

PRESSURE SWITCHES

- Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
- Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392

PRESSURE VESSELS

- Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
- Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
- Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
- Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
- Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
- Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N86-32570
- Pressure rig for repetitive casting
[NASA-CASE-LAR-13485-1] c 31 N87-29712

PRESSURE WELDING

- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055

PRESSURIZING

- Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677

PRESTRESSING

- Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
- Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

PRETREATMENT

- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

PRINTED CIRCUITS

- Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
- Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
- Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
- Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
- Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
- Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

- Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
- Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
- Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
- Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
- Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
- Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314

PRINTING

- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530

PRINTOUTS

- Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

PRISMS

- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

PROBABILITY THEORY

- System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

PROBES

- Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

PROCESS CONTROL (INDUSTRY)

- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

PROCESSING

- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

PRODUCT DEVELOPMENT

- Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
- Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
- Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854

PRODUCTION ENGINEERING

- Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808

- Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
- Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
- Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
- Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
- Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
- Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
- Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
- Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
- Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

PROJECTILES

- Self-obturing, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247
- Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

PROJECTION

- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

PROJECTIVE GEOMETRY

- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

PROJECTORS

- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
- Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

PROPAGATION MODES

- Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676

PROPAGATION VELOCITY

- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

PROPARGYL GROUPS

- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123

PROPELLANT ACTUATED INSTRUMENTS

- Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

PROPELLANT ADDITIVES

- Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

PROPELLANT BINDERS

- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

PROPELLANT CASTING

- Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
- Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143

PROPELLANT CHEMISTRY

- Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

PROPELLANT COMBUSTION

- Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
- Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

PROPELLANT DECOMPOSITION

- Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

PROPELLANT GRAINS

- Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534

PROPELLANT TANKS

- Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
- Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
- Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
- Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
- Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
- Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
- Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
- Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
- Passive propellant system
[NASA-CASE-MSC-23642-2] c 20 N78-27176
- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

PROPELLANT TRANSFER

- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
- Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
- Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
- Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176
- Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

PROPELLER BLADES

- Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

PROPELLER EFFICIENCY

- Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

PROPELLERS

- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N87-14282

PROPORTIONAL CONTROL

- Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954

PROPULSION SYSTEM CONFIGURATIONS

- Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
- Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
- Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
- Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
- Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
- Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

PROPULSION SYSTEM PERFORMANCE

- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

PROPYLENE

- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

PROSTHETIC DEVICES

- Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
- Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
- Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
- Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
- Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

PROTECTION

- Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
- Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
- Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N86-26296

PROTECTIVE CLOTHING

- Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
- Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599
- Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
- Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108
- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
- Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113

PROTECTIVE COATINGS

- Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
- Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
- Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

- Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
- Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
- Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
- Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
- Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
- Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
- Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
- Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
- Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
- Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
- Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
- Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
- Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
- Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
- Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
- Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

PROTECTORS

Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

PROTEINS

Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086

PROTOCOL (COMPUTERS)

Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

PROTON FLUX DENSITY

Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

PROXIMITY

Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

PSEUDONOISE

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

PULLEYS

Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

PULLING

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PULMONARY CIRCULATION

Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

PULMONARY FUNCTIONS

Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

PULSE AMPLITUDE

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

PULSE AMPLITUDE MODULATION

Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

PULSE CODE MODULATION

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

PULSE COMMUNICATION

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

PULSE DURATION

Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

PULSE DURATION MODULATION

Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392

PULSE FREQUENCY MODULATION

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891

Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

PULSE GENERATORS

High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE HEATING

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484

PULSE MODULATION

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE RATE

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

PULSED LASERS

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PULSED RADIATION

Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

PULSES

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

PUMP SEALS

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

PUMPS

Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023

Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042

Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028

Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465

Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904

Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154

Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693

Fluid driven sump pump
[NASA-CASE-ARC-11414-1] c 37 N83-20152

Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738

Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818

Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

PUNCHED CARDS
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908

Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

PUNCHES
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

PURGING
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849

Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

PURIFICATION
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044

Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184

Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

PURITY
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230

Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

PUSH-PULL AMPLIFIERS
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351

Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

PUSHING
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PYLONS
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

PYRIDINES
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

PYROELECTRICITY
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

PYROGEN
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275

PYROLYSIS
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261

Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

PYROLYTIC GRAPHITE
Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942

Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

PYROLYTIC MATERIALS
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623

PYROMETERS
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975

PYROTECHNICS
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958

Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

PYRRONES (TRADEMARK)
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Q

Q SWITCHED LASERS
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425

Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

Q VALUES
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

QUADRATIC PROGRAMMING
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

QUADRATURES
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017

QUALITATIVE ANALYSIS
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161

Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285

QUANTITATIVE ANALYSIS
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199

Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397

Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141

Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161

Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

QUANTUM THEORY
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

QUARTZ
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332

Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

QUARTZ LAMPS
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312

Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

QUINOXALINES
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

R

RACKS (FRAMES)
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267

Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397

Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

RADAR ANTENNAS
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

RADAR ATTENUATION
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR BEACONS
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

RADAR BEAMS
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692

RADAR DATA
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR DETECTION
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692

RADAR ECHOES
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR EQUIPMENT
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR IMAGERY

- Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- RADAR MEASUREMENT**
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- RADAR RANGE**
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
- RADAR RECEIVERS**
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- RADAR RECEPTION**
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
- RADAR REFLECTORS**
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
- Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
- RADAR TARGETS**
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- RADAR TRACKING**
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
- Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
- Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- RADAR TRANSMITTERS**
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
- RADIAL DISTRIBUTION**
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
- RADIAL FLOW**
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- RADIANCE**
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
- RADIANT COOLING**
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
- RADIANT FLUX DENSITY**
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
- Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- RADIANT HEATING**
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
- High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545

- Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
- Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
- Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
- High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
- RADIATION**
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
- Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
- Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
- Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
- RADIATION ABSORPTION**
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- RADIATION COUNTERS**
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
- Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
- Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
- Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
- Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
- Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
- Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
- Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- RADIATION DAMAGE**
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
- Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- RADIATION DETECTORS**
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MS-C-12280] c 27 N71-16348
- Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
- Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
- Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
- Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141

- Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
- Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
- Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
- High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
- Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
- Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
- Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
- Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
- X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
- Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a Bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- RADIATION DISTRIBUTION**
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- RADIATION DOSAGE**
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
- Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- RADIATION EFFECTS**
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
- RADIATION HARDENING**
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
- RADIATION HAZARDS**
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- RADIATION MEASUREMENT**
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
- RADIATION MEASURING INSTRUMENTS**
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
- Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
- Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
- Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
- Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
- Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
- Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
- Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
- RADIATION MEDICINE**
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- RADIATION PROTECTION**
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
- Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
- Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
- RADIATION SHIELDING**
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
- Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
- Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
- Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
- RADIATION SOURCES**
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
- High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- RADIATION SPECTRA**
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
- RADIATION THERAPY**
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- RADIATION TOLERANCE**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- RADIATIVE HEAT TRANSFER**
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
- Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- RADIATORS**
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
- RADIO ANTENNAS**
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
- VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
- Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
- Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N87-29718
- RADIO ASTRONOMY**
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- RADIO BEACONS**
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
- Improved legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N85-20226
- RADIO COMMUNICATION**
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
- Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
- RADIO CONTROL**
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
- RADIO EQUIPMENT**
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
- RADIO FREQUENCIES**
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
- Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
- Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
- RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
- Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
- Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
- Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
- Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
- RADIO FREQUENCY DISCHARGE**
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
- RADIO FREQUENCY HEATING**
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
- RADIO FREQUENCY INTERFERENCE**
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
- System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
- Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
- Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N86-24879
- RADIO FREQUENCY SHIELDING**
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
- Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
- RADIO INTERFEROMETERS**
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
- RADIO PROBING**
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- RADIO RECEIVERS**
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
- Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
- Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
- RADIO RELAY SYSTEMS**
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
- RADIO SIGNALS**
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- RADIO SOURCES (ASTRONOMY)**
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
- RADIO STARS**
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- RADIO TELEMETRY**
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
- RADIO TELESCOPES**
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- RADIO TRANSMITTERS**
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
- Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
- Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
- RADIO WAVES**
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
- RADIOACTIVE ISOTOPES**
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- RADIOBIOLOGY**
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
- RADIOGRAPHY**
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
- X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
- RADIOLOGY**
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
- RADIOLYSIS**
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
- RADIOMETERS**
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
- Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477

Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

RADIOSONDES

Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

RAIN

Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

RAMJET ENGINES

Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

RAMPS (STRUCTURES)

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

RANDOM ACCESS MEMORY

Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803

RANDOM LOADS

Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003

RANDOM NOISE

Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

RANGE (EXTREMES)

Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

RANGE AND RANGE RATE TRACKING

Range and range rate system --- for use with orbiting vehicles during docking and closing maneuvers
[NASA-CASE-MSC-20867-1] c 36 N87-25570

RANGE FINDERS

Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

RANGEFINDING

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

RARE EARTH COMPOUNDS

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

RARE GASES

Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

RAREFIED GASES

Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

RATES (PER TIME)

Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

RC CIRCUITS

Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

REACTION BONDING

Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N87-27810

REACTION CONTROL

Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

REACTION KINETICS

Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

REACTION PRODUCTS

Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

REACTION TIME

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

REACTION WHEELS

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

REACTIVITY

Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

REACTOR CORES

Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

REACTOR DESIGN

Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

REACTOR MATERIALS

Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

REACTOR PHYSICS

Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

READ-ONLY MEMORY DEVICES

Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

READERS

Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

READOUT

Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272

Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

REAL TIME OPERATION

Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N87-19064
Real-time simulation clock
[NASA-CASE-LAR-13615-1] c 35 N87-24682

REBREATHING

Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

RECEIVERS

System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270

RECIPROCATING

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

RECOMBINATION REACTIONS

Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874

RECONSTRUCTION

Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

RECORDING HEADS

Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

RECORDING INSTRUMENTS

- Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
- Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877

RECOVERABILITY

- Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135

RECOVERABLE LAUNCH VEHICLES

- Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
- Oribter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161

RECOVERABLE SPACECRAFT

- Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675

RECOVERY PARACHUTES

- Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
- Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

RECTANGULAR PANELS

- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214

RECTIFIERS

- Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
- Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
- Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
- SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

RECTUM

- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

REDOX CELLS

- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

REDUCED GRAVITY

- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N87-15452
- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495

REDUCTION (CHEMISTRY)

- Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
- Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458

- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

REDUNDANCY

- Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

REDUNDANT COMPONENTS

- Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
- Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

REELS

- Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

REENTRY COMMUNICATION

- Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
- Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
- Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

REENTRY SHIELDING

- Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
- Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N87-14442

REENTRY TRAJECTORIES

- Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

REENTRY VEHICLES

- Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
- Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
- Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
- Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
- Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- Earth-to-orbit vehicle providing a reusable orbital stage and method of utilizing same
[NASA-CASE-LAR-13486-1] c 16 N87-29582

REFERENCE SYSTEMS

- Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

REFINING

- Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946

REFLECTANCE

- Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
- Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

- Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

- Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

REFLECTED WAVES

- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512

REFLECTING TELESCOPES

- Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
- Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

REFLECTION

- Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

REFLECTOMETERS

- Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
- Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

REFLECTOR ANTENNAS

- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

REFLECTORS

- Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
- Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
- Spectroscopic equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
- Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-XLA-011264] c 07 N72-25174
- Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843

REFRACTIVITY

- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

REFRACTORY COATINGS

- Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

- Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- REFRACTORY MATERIALS**
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
- REFRACTORY METALS**
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- REFRIGERATING**
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- REFRIGERATING MACHINERY**
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025

- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N86-27467
- REFRIGERATORS**
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
- REFUELING**
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N87-25583
- REGENERATION (ENGINEERING)**
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- REGENERATION (PHYSIOLOGY)**
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- REGENERATIVE COOLING**
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
- REGENERATIVE FUEL CELLS**
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- REGENERATORS**
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- REGISTERS (COMPUTERS)**
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
- REINFORCED PLASTICS**
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- REINFORCEMENT (STRUCTURES)**
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
- REINFORCEMENT RINGS**
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
- REINFORCING FIBERS**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135

- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
- RELAXATION OSCILLATORS**
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- RELAY SATELLITES**
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
- RELEASING**
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
- RELIABILITY ANALYSIS**
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- RELIABILITY ENGINEERING**
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
- RELIEF MAPS**
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- RELIEF VALVES**
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- REMOTE CONTROL**
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258

- Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
- Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Method and apparatus for aligning a laser beam projector
Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
- Laser communication system for controlling several
functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Cooperative multiaxis sensor for teleoperation of article
manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
- Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
- Remote manipulator system
[NASA-CASE-MFS-22022-2] c 37 N76-15460
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Simulator method and apparatus for practicing the
mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
- Terminal guidance sensor system --- space shuttle
coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Retinally stabilized differential resolution television
display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- Digital control of diode laser for atmospheric
spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
- Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
- Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
- Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N87-19064
- Apparatus and method of capturing an orbiting
spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
- Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
- REMOTE HANDLING**
- Remote control manipulator for zero gravity
environment
[NASA-CASE-MFS-14405] c 15 N72-28495
- Apparatus for remote handling of materials --- mixing
or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
- Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
- Precision manipulator heating and cooling apparatus for
use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- Space spider crane
[NASA-CASE-LAR-13411-1SB] c 18 N87-15259
- Mobile remote manipulator system for a tetrahedral
truss
[NASA-CASE-MSC-20985-1] c 18 N87-15260
- REMOTE MANIPULATOR SYSTEM**
- Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
- Apparatus and method of capturing an orbiting
spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- REMOTE SENSING**
- Method and apparatus for calibrating the ionosphere
and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- REMOTE SENSORS**
- Passive optical wind and turbulence detection system
Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
- Pressure monitoring with a plurality of ionization gauges
controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
- Time synchronization system utilizing moon reflected
coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
- Microwave power transmission system wherein level of
transmitted power is controlled by reflections from
receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
- Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
- Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- Penetrometer --- for determining load bearing
characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Remote sensing of vegetation and soil using microwave
ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
- Radar target for remotely sensing hydrological
phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- Method of and apparatus for measuring temperature and
pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- REMOTELY PILOTED VEHICLES**
- Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076
- REMOVAL**
- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
- REPEATERS**
- Time division radio relay synchronizing system using
different sync code words for in sync and out of sync
conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- REPLACING**
- Electron beam tube containing a multiple cathode array
employing indexing means for cathode substitution
Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
- RESCUE OPERATIONS**
- Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
- Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
- Method of locating persons in distress --- by using radar
imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
- Apparatus and method of capturing an orbiting
spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
- RESEARCH AIRCRAFT**
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- RESEARCH AND DEVELOPMENT**
- Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
- RESEARCH VEHICLES**
- Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- RESIDUAL STRESS**
- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Method of making a perspiration resistant biopotential
electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- RESILIENCE**
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- RESIN BONDING**
- Method and apparatus for bonding a plastics sleeve onto
a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Covered silicon solar cells and method of manufacture
--- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Method of manufacture of bonded fiber flywheel ---
fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- RESIN MATRIX COMPOSITES**
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Elastomer coated filler and composites thereof
comprising at least 60% by weight of a hydrated filler and
an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Method of tracing contour patterns for use in making
gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles
with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- High performance mixed bisimide resins and composites
based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Toughening reinforced epoxy composites with
brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
- Process for preparing phthalocyanine polymer from
imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
- Method of controlling a resin curing process --- for fiber
reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N87-25473
- RESINS**
- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
- Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
- Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Fire and heat resistant laminating resins based on
maleimido and citraconimido substituted 1-(diorgano
oxyphosphonyl) methyl -2,4- and -2,6- diamino benzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- RESISTANCE**
- Method of making a perspiration resistant biopotential
electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Variable resistance constant tension and lubrication
device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- RESISTANCE HEATING**
- Electrothermal rockets having improved heat
exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
- Instrumentation for sensing moisture content of material
using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- RESISTORS**
- High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
- Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- Amplifier for measuring low-level signals in the presence
of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- RESOLUTION**
- Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
- Spectroscopy equipment using a slender cylindrical
reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
- RESOLVERS**
- Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
- RESONANCE**
- Optically selective, acoustically resonant gas detecting
transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Arrangement for damping the resonance in a laser
diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
- RESONANT FREQUENCIES**
- Vibrating element electrometer with output signal
magnified over input signal by a function of the mechanical
Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
- Apparatus for detecting the amount of material in a
resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512

Microbalance --- for measuring particle mass
[NASA-CASE-MS-11242] c 35 N78-17358

Method and apparatus for shaping and enhancing
acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767

Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887

Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N86-20087

Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

RESONANT VIBRATION
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

RESONATORS
High-Q bandpass resonators utilizing bandstop
resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

RESPIRATION
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

RESPIRATORS
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329

RESPIRATORY RATE
Gas low pressure low flow rate metering system
Patent
[NASA-CASE-FRC-10022] c 12 N71-26546

Respiratory analysis system and method
[NASA-CASE-MS-13436-1] c 05 N73-32015

Metabolic analyzer --- for measuring metabolic rate and
breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPIROMETERS
Metabolic analyzer --- for measuring metabolic rate and
breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPONSES
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

RESTARTABLE ROCKET ENGINES
Zero gravity starting means for liquid propellant motors
Patent
[NASA-CASE-XNP-01390] c 28 N70-41275

Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992

RESUSCITATION
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

RETAINING
Floating nut retention system
[NASA-CASE-MS-16938-1] c 37 N80-23653

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

RETARDERS (DEVICES)
Thrust reverser for a long duct fan engine --- for turbofan
engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

RETARDING
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

RETICLES
Optical tracker having overlapping reticles on parallel
axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100

Star tracking reticles and process for the production
thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320

Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008

Star scanner --- with a reticle with a pair of slits having
differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886

RETINAL IMAGES
Retinally stabilized differential resolution television
display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

RETRACTABLE EQUIPMENT
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

Antenna deployment mechanism for use with a
spacecraft --- extensible and retractable telescopic
antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183

CAM controlled retractable door latch
[NASA-CASE-MS-20304-1] c 37 N82-31690

Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

RETROFIRING
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499

Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

RETROREFLECTION
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662

Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

Method and apparatus for Doppler frequency modulation
of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510

RETROREFLECTORS
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

RETROCKET ENGINES
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

REUSABLE HEAT SHIELDING
High temperature glass thermal control structure and
coating --- for application to spacecraft reusable heat
shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

REUSABLE ROCKET ENGINES
Earth-to-orbit vehicle providing a reusable orbital stage
and method of utilizing same
[NASA-CASE-LAR-13486-1] c 16 N87-29582

REUSABLE SPACECRAFT
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588

Space shuttle vehicle and system
[NASA-CASE-MS-12433] c 31 N73-14854

Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

REUSE
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376

Reusable captive blind fastener
[NASA-CASE-MS-18742-1] c 37 N82-26673

Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N87-25478

REVERSE OSMOSIS
Reverse osmosis membrane of high urea rejection
properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

Method for the preparation of thin-skinned asymmetric
reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

REVERSED FLOW
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706

Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

REYNOLDS NUMBER
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183

REYNOLDS STRESS
System for measuring Reynolds in a turbulently flowing
fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517

RHENIUM
Thermocouples of tantalum and rhenium alloys for more
stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

RHEOMETERS
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357

RHOMBOIDS
Rhomboid prism pair for rotating the plane of parallel
light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

RIBBONS
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411

Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752

Method of controlling defect orientation in silicon crystal
ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920

Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314

Growth of silicon carbide crystals on a seed while pulling
silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431

Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474

Means for growing ribbon crystals without subjecting the
crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244

Method of growing a ribbon crystal particularly suited
for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245

Apparatus for use in the production of ribbon-shaped
crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389

Method of increasing minority carrier lifetime in silicon
web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934

RIBOFLAVIN
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

RIBS (SUPPORTS)
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

RICE
Modification of the physical properties of freeze-dried
rice
[NASA-CASE-MS-13540-1] c 05 N72-33096

RIDING QUALITY
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

RIGID ROTORS
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

RIGID STRUCTURES
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975

Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155

Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123

Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040

Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324

RIGID WINGS
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863

RIMS
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

RING CURRENTS
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

RING STRUCTURES
Reversible ring counter employing cascaded single SCR
stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673

Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877

Phase-locked servo system --- for synchronizing the
rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139

Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653

Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678

Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618

Method and apparatus for making an optical element
having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

RING WINGS
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315

RIPPLES
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

RIVETS
Printed circuit board with bellows rivet connection
Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

ROBOTICS
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N87-14705

Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689

ROCKET ENGINE CASES
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143

ROCKET ENGINE CONTROL
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

ROCKET ENGINE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275

ROCKET ENGINES
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

ROCKET EXHAUST
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

ROCKET FIRING
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663

ROCKET FLIGHT
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691

ROCKET LAUNCHING
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043

ROCKET LININGS
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573

ROCKET NOZZLES
Gimballed, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

ROCKET OXIDIZERS
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

ROCKET PROPELLANTS
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

ROCKET TEST FACILITIES
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

ROCKET THRUST
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

ROCKET VEHICLES
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663

Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

ROCKET-BORNE INSTRUMENTS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

ROCKETS
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

ROCKS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

RODS
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N86-26296
Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N87-19116
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

ROLL
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

ROLLER BEARINGS
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

ROLLERS
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

ROLLING CONTACT LOADS
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189

ROLLING MOMENTS
Roll attitude star sensor system Patent
[NASA-CASE-NPO-01307] c 21 N70-41856

ROOM TEMPERATURE
Coating process
[NASA-CASE-NXP-06508] c 18 N69-39895

ROTARY GYROSCOPES
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

ROTARY STABILITY
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

ROTARY WING AIRCRAFT
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N87-14282

ROTARY WINGS

- Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
- ROTARY WINGS**
- Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-LAR-11106-1] c 05 N80-14107
- Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- ROTATING BODIES**
- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
- Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
- Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
- Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
- Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
- Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- Airborne tracking Sun photometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N86-21982
- ROTATING CYLINDERS**
- Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
- ROTATING DISKS**
- Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
- ROTATING ELECTRICAL MACHINES**
- Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
- Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
- ROTATING ENVIRONMENTS**
- Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
- ROTATING GENERATORS**
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
- ROTATING MIRRORS**
- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674

- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11553-1] c 74 N74-21304
- Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459
- ROTATING SHAFTS**
- Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
- Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
- Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
- Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
- Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
- Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
- Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
- Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
- Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
- Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
- Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
- Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
- Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
- Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
- Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
- Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
- Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
- Optical data transfer system for crossing a rotary joint
[NASA-CASE-LAR-13613-1-SB] c 74 N87-24984
- ROTATION**
- Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
- Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- ROTOR AERODYNAMICS**
- Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- ROTOR BLADES**
- Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
- Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
- ROTOR BLADES (TURBOMACHINERY)**
- Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
- Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
- Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
- Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
- Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
- Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

- Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
- ROTOR LIFT**
- Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847
- ROTOR SPEED**
- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
- ROTORCRAFT AIRCRAFT**
- Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847
- ROTORS**
- Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
- Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
- Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
- Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
- Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
- Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
- Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
- RUBBER**
- Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
- Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- RUBBER COATINGS**
- Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
- RUBY**
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- RUBY LASERS**
- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
- RUDDERS**
- Helicopter having a disengageable tail rotor
[NASA-CASE-LAR-13609-1] c 05 N87-24460
- RUNWAY ALIGNMENT**
- Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- RUNWAY CONDITIONS**
- Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398
- RUNWAY LIGHTS**
- Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- RUNWAYS**
- Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398
- RUPTURING**
- Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
- S**
- SABOT PROJECTILES**
- Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084
- SAFETY**
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- SAFETY DEVICES**
- Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
- Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
- Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797

- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
- Restraint torso for a pressurized suit
[NASA-CASE-MS-C-12397-1] c 05 N72-25119
- Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544
- Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
- SAFETY FACTORS**
- Safety flywheel --- using flexible materials energy storage
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- SAHA EQUATIONS**
- Cosmic dust analyzer
[NASA-CASE-MS-C-13802-2] c 35 N76-15431
- SALT BATHS**
- Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
- SAMARIUM**
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- SAMPLERS**
- Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
- SAMPLES**
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- SAMPLING**
- Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
- Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
- Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
- Digital to analog conversion apparatus
[NASA-CASE-MS-C-12458-1] c 08 N73-32081
- Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
- Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
- Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
- Automatic biowaste sampling
[NASA-CASE-MS-C-14640-1] c 54 N76-14804
- Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
- Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MS-C-16841-1] c 34 N79-24285
- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- Moisture content and gas sampling device
[NASA-CASE-MS-C-18866-1] c 35 N85-29213
- Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
- Solid sorbent air sampler
[NASA-CASE-MS-C-20653-1] c 35 N86-26595
- SANDWICH STRUCTURES**
- Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
- Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
- SAPPHIRE**
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- SATELLITE ANTENNAS**
- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
- Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- SATELLITE ATTITUDE CONTROL**
- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
- Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
- Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
- Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
- Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
- Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
- Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
- Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- SATELLITE COMMUNICATION**
- Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- SATELLITE CONTROL**
- Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
- SATELLITE DESIGN**
- Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- SATELLITE INSTRUMENTS**
- Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- SATELLITE NETWORKS**
- Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- SATELLITE OBSERVATION**
- Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- SATELLITE ORBITS**
- Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- SATELLITE ORIENTATION**
- Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
- Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
- Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
- SATELLITE PERTURBATION**
- Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
- SATELLITE POWER TRANSMISSION (TO EARTH)**
- Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- SATELLITE ROTATION**
- Optical spin compensator
[NASA-CASE-GSC-02401] c 14 N69-27485
- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
- SATELLITE TELEVISION**
- Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
- SATELLITE TRACKING**
- Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
- Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
- SATELLITE TRANSMISSION**
- Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
- SATELLITE-BORNE INSTRUMENTS**
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- SATELLITE-BORNE PHOTOGRAPHY**
- Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- SATURABLE REACTORS**
- Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
- SATURATION**
- Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
- SAWS**
- Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- SAWTOOTH WAVEFORMS**
- Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
- SCANNERS**
- Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
- Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857

Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347

Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578

Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491

Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

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Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189

Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

SCATTERING CROSS SECTIONS

Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

SCENE ANALYSIS

Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

SCHLIEREN PHOTOGRAPHY

System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856

SCHMIDT CAMERAS

Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

SCHMIDT TELESCOPES

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

SCHOOLS

Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205

SCHOTTKY DIODES

High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526

Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467

Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528

Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525

Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

SCOOPS

Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

SCORING

Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

SCRAMBLING (COMMUNICATION)

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

SCREWS

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635

Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

SCRUBBERS

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

SEA ICE

A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520

SEA STATES

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

SEA SURFACE TEMPERATURE

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SEALERS

Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

SEALING

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256

Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451

Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

SEALS (STOPPERS)

Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320

Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376

Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087

Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577

Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469

Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711

Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363

Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674

Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N86-32740

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N87-25583

SEAMS (JOINTS)

Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N84-11301

SEAT BELTS

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

SEATS

Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544

Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

SECONDARY EMISSION

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

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Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921

SECURITY

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SEGMENTS

Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597

SEISMIC WAVES

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

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Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SELECTORS

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777

- Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
- SELF ALIGNMENT**
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- SELF ERECTING DEVICES**
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
- SELF FOCUSING**
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- SELF LUBRICATING MATERIALS**
Self-lubricating fluorine metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- SELF LUBRICATION**
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- SELF MANEUVERING UNITS**
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
- SELF PROPAGATION**
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
- SELF SEALING**
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
- SELF TESTS**
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- SEMICONDUCTOR DEVICES**
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
- Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- SEMICONDUCTOR JUNCTIONS**
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- SEMICONDUCTORS (MATERIALS)**
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N87-15004
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- SENSITIVITY**
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1CU] c 76 N87-15883
- SENSITOMETRY**
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
- SENSORS**
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- SENSORY PERCEPTION**
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
- SEPARATED FLOW**
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
- SEPARATORS**
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device
[NASA-CASE-XLA-8914] c 15 N73-12492
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Formulated plastic separators for soluble electrode cells
 --- rubber-ion transport membranes
 [NASA-CASE-LEW-12358-1] c 44 N79-17313

Water separator
 [NASA-CASE-XMS-01295-1] c 37 N79-21345

In situ self cross-linking of polyvinyl alcohol battery separators
 [NASA-CASE-LEW-12972-1] c 44 N79-25481

Partial interlaminar separation system for composites
 [NASA-CASE-LAR-12065-1] c 24 N81-14000

Polyvinyl alcohol battery separator containing inert filler
 --- alkaline batteries
 [NASA-CASE-LEW-13556-1] c 44 N81-27615

Method of making formulated plastic separators for soluble electrode cells
 [NASA-CASE-LEW-12358-2] c 25 N82-21268

Process of treating cellulose membrane and alkaline with membrane separator
 [NASA-CASE-GSC-10019-1] c 44 N82-24641

Separator for alkaline batteries and method of making same
 [NASA-CASE-GSC-10350-1] c 44 N82-24642

Separator for alkaline electric cells and method of making
 [NASA-CASE-GSC-10017-1] c 44 N82-24643

Separator for alkaline electric batteries and method of making
 [NASA-CASE-GSC-10018-1] c 44 N82-24644

Alkaline electrochemical cells and method of making
 [NASA-CASE-GSC-10349-1] c 44 N82-24645

Aqueous alkali metal hydroxide insoluble cellulose ether membrane
 [NASA-CASE-XGS-05584-1] c 25 N82-29370

Advanced inorganic separators for alkaline batteries
 [NASA-CASE-LEW-13171-1] c 44 N82-29708

Electrophoresis device
 [NASA-CASE-MFS-25426-1] c 25 N83-10126

Static continuous electrophoresis device
 [NASA-CASE-MFS-25306-1] c 25 N83-13187

Advanced inorganic separators for alkaline batteries and method of making the same
 [NASA-CASE-LEW-13171-2] c 44 N83-32176

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
 [NASA-CASE-LEW-13102-1] c 33 N85-29144

SEQUENCING
 Synchronous counter Patent
 [NASA-CASE-XGS-02440] c 08 N71-19432

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
 [NASA-CASE-XGS-04224] c 10 N71-26418

Digital function generator
 [NASA-CASE-NPO-11104] c 08 N72-22165

MOD 2 sequential function generator for multibit binary sequence
 [NASA-CASE-NPO-10636] c 08 N72-25210

Pseudonoise sequence generators with three tap linear feedback shift registers
 [NASA-CASE-NPO-11406] c 08 N73-12175

Mechanical sequencer
 [NASA-CASE-MSC-19536-1] c 37 N77-22482

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
 [NASA-CASE-MFS-15670-1] c 33 N82-33634

SEQUENTIAL ANALYSIS
 Binary coded sequential acquisition ranging system
 [NASA-CASE-NPO-11194] c 08 N72-25209

Event sequence detector
 [NASA-CASE-NPO-11703-1] c 10 N73-32144

SEQUENTIAL COMPUTERS
 Digital data reformatter/deserializer
 [NASA-CASE-NPO-13676-1] c 60 N79-20751

SEQUENTIAL CONTROL
 Linear three-tap feedback shift register Patent
 [NASA-CASE-NPO-10351] c 08 N71-12503

Binary sequence detector Patent
 [NASA-CASE-XNP-05415] c 08 N71-12505

Sequencing device utilizing planetary gear set
 [NASA-CASE-MSC-19514-1] c 37 N79-20377

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
 [NASA-CASE-MFS-256704-1] c 33 N84-22884

SERUMS
 Reduction of blood serum cholesterol
 [NASA-CASE-NPO-12119-1] c 52 N75-15270

SERVICE LIFE
 Electro-mechanical sine/cosine generator
 [NASA-CASE-LAR-10503-1] c 09 N72-21248

Stirling cycle cryogenic cooler
 [US-PATENT-4,389,849] c 44 N83-28574

Tip cap for a rotor blade
 [NASA-CASE-LEW-13654-1] c 07 N84-22560

SERVOAMPLIFIERS
 Pneumatic amplifier Patent
 [NASA-CASE-MSC-12121-1] c 15 N71-27147

SERVOCONTROL

Monopulse system with an electronic scanner
 [NASA-CASE-XGS-05582] c 07 N69-27460

Proportional controller Patent
 [NASA-CASE-XAC-03392] c 03 N70-41954

Light intensity modulator controller Patent
 [NASA-CASE-XMS-04300] c 09 N71-19479

Strain coupled servo control system Patent
 [NASA-CASE-XLA-08530] c 32 N71-25360

Energy limiter for hydraulic actuators Patent
 [NASA-CASE-ARC-10131-1] c 15 N71-27754

Digital servo controller --- for rotating antenna shaft
 [NASA-CASE-KSC-10769-1] c 33 N74-29556

Digital servo control of random sound test excitation
 --- in reverberant acoustic chamber
 [NASA-CASE-NPO-11623-1] c 71 N74-31148

Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
 [NASA-CASE-MFS-22073-1] c 33 N75-13139

Servo-controlled intravital microscope system
 [NASA-CASE-NPO-13214-1] c 35 N75-25123

Autonomous navigation system --- gyroscopic pendulum for air navigation
 [NASA-CASE-ARC-11257-1] c 04 N81-21047

System and method for moving a probe to follow movements of tissue
 [NASA-CASE-NPO-15197-1] c 52 N83-25346

Control system for an induction motor with energy recovery
 [NASA-CASE-MFS-25477-1] c 33 N84-14424

Memory metal actuator
 [NASA-CASE-NPO-15960-1] c 37 N86-19604

SERVO MECHANISMS
 Interferometer servo system Patent
 [NASA-CASE-NPO-10300] c 14 N71-17662

Line following servosystem Patent
 [NASA-CASE-XAC-00001] c 15 N71-28952

A dc servosystem including an ac motor Patent
 [NASA-CASE-NPO-10700] c 07 N71-33613

Ball screw linear actuator
 [NASA-CASE-NPO-11222] c 15 N72-25456

Rotary actuator
 [NASA-CASE-NPO-10680] c 31 N73-14855

Hydraulic drain means for servo-systems
 [NASA-CASE-NPO-10316-1] c 37 N77-22479

Actuator mechanism
 [NASA-CASE-GSC-11883-2] c 37 N78-31426

Apparatus for providing a servo drive signal in a high-speed stepping interferometer
 [NASA-CASE-NPO-13569-2] c 35 N79-14348

Automated syringe sampler --- remote sampling of air and water
 [NASA-CASE-LAR-12308-1] c 35 N81-29407

Electrical servo actuator bracket --- fuel control valves on jet engines
 [NASA-CASE-FRC-11044-1] c 37 N81-33483

Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
 [NASA-CASE-LAR-12412-1] c 08 N82-24205

Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
 [NASA-CASE-NPO-14998-1] c 32 N83-18975

SERVO MOTORS
 Automatic closed circuit television arc guidance control Patent
 [NASA-CASE-MFS-13046] c 07 N71-19433

Transistor servo system including a unique differential amplifier circuit Patent
 [NASA-CASE-XMF-05195] c 10 N71-24861

Cyclically operable optical shutter
 [NASA-CASE-NPO-10758] c 14 N73-14427

Rotary actuator
 [NASA-CASE-NPO-10680] c 31 N73-14855

Velocity servo for continuous scan Fourier interference spectrometer
 [NASA-CASE-NPO-14093-1] c 35 N80-20563

Load positioning system with gravity compensation
 [NASA-CASE-ARC-11525-1] c 37 N86-27629

SEWAGE TREATMENT
 Sewage sludge additive
 [NASA-CASE-NPO-13877-1] c 45 N82-11634

Method for treating wastewater using microorganisms and vascular aquatic plants
 [NASA-CASE-NSTL-10] c 45 N84-12654

SHADES
 Sun shield
 [NASA-CASE-MSC-20162-1] c 37 N87-17036

SHAFTS (MACHINE ELEMENTS)
 Fatigue-resistant shear pin
 [NASA-CASE-XLA-09122] c 15 N69-27505

Elastic universal joint Patent
 [NASA-CASE-XNP-00416] c 15 N70-36947

Apparatus for absorbing and measuring power Patent
 [NASA-CASE-XLE-00720] c 14 N70-40201

Two-axis controller Patent
 [NASA-CASE-XFR-04104] c 03 N70-42073

Ratchet mechanism Patent
 [NASA-CASE-MFS-12805] c 15 N71-17805

Frictionless universal joint Patent
 [NASA-CASE-NPO-10646] c 15 N71-28467

Spiral groove seal
 [NASA-CASE-XLE-10326-2] c 15 N72-29488

High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
 [NASA-CASE-LEW-11152-1] c 15 N73-32359

Spiral groove seal --- for hydraulic rotating shaft
 [NASA-CASE-LEW-10326-3] c 37 N74-10474

Hole cutter --- drill bits and rotating shaft
 [NASA-CASE-MFS-22649-1] c 37 N75-25186

Twin-capacitive shaft angle encoder with analog output signal
 [NASA-CASE-ARC-10897-1] c 33 N77-31404

Counter pumping debris excluder and separator --- gas turbine shaft seals
 [NASA-CASE-LEW-11855-1] c 07 N78-25090

Sequencing device utilizing planetary gear set
 [NASA-CASE-MSC-19514-1] c 37 N79-20377

Shaft seal assembly for high speed and high pressure applications
 [NASA-CASE-LEW-11873-1] c 37 N79-22475

Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
 [NASA-CASE-NPO-14170-1] c 37 N81-15364

Hot gas engine with dual crankshafts
 [NASA-CASE-NPO-14221-1] c 37 N81-25370

Circumferential shaft seal
 [NASA-CASE-LEW-12119-2] c 37 N81-26447

Hermetic seal for a shaft
 [NASA-CASE-NPO-15115-1] c 37 N82-24493

Method for driving two-phase turbines with enhanced efficiency
 [NASA-CASE-NPO-15037-2] c 37 N85-29282

Angular measurement system
 [NASA-CASE-MFS-25825-1] c 31 N86-29055

Non-backdrivable free wheeling coupling
 [NASA-CASE-MSC-20475-1] c 37 N87-17037

SHAKERS
 Planar oscillatory stirring apparatus
 [NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

SHALE OIL
 In-situ laser retorting of oil shale
 [NASA-CASE-LEW-12217-1] c 43 N78-14452

Oil shale extraction using super-critical extraction
 [NASA-CASE-NPO-15656-1] c 43 N84-23012

Solar heated oil shale pyrolysis process
 [NASA-CASE-NPO-16392-1] c 25 N86-25428

SHALES
 Coal-shale interface detection
 [NASA-CASE-MFS-23720-3] c 43 N79-25443

Coal-shale interface detection system
 [NASA-CASE-MFS-23720-2] c 43 N80-14423

Coal-shale interface detector
 [NASA-CASE-MFS-23720-1] c 43 N80-23711

Oil shale extraction using super-critical extraction
 [NASA-CASE-NPO-15656-1] c 43 N84-23012

SHAPE CONTROL
 Synchronously deployable truss structure
 [NASA-CASE-LAR-13117-1] c 37 N86-25789

SHAPE MEMORY ALLOYS
 Memory metal actuator
 [NASA-CASE-NPO-15960-1] c 37 N86-19604

Rotary stepping device with memory metal actuator
 [NASA-CASE-NPO-15482-1] c 37 N87-23970

SHAPED CHARGES
 Coupling for linear shaped charge Patent
 [NASA-CASE-XLA-00189] c 33 N70-36846

Lateral displacement system for separated rocket stages Patent
 [NASA-CASE-XLA-04804] c 31 N71-23008

SHAPERS
 Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
 [NASA-CASE-XLA-00304] c 27 N70-34783

Tube dimpling tool Patent
 [NASA-CASE-XMS-06876] c 15 N71-21536

Dielectric molding apparatus Patent
 [NASA-CASE-LAR-10121-1] c 15 N71-26721

SHARKS
 Process for conditioning tanned sharkskin and articles made therefrom Patent
 [NASA-CASE-XMS-09691-1] c 18 N71-15545

SHARPNESS
 Method of forming a sharp edge on an optical device
 [NASA-CASE-GSC-12348-1] c 74 N80-24149

SHEAR CREEP
 Instrument for measuring torsional creep and recovery Patent
 [NASA-CASE-XLE-01481] c 14 N71-10781

SHEAR FLOW
 Shear modulated fluid amplifier Patent
 [NASA-CASE-MFS-10412] c 12 N71-17578

SHEAR PROPERTIES

Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

SHEAR STRESS

Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064

SHEARING

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SHELL ANODES

Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

SHELLS (STRUCTURAL FORMS)

Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

SHIELDING

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

SHIFT REGISTERS

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SHOCK ABSORBERS

Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284

Vehicular impact absorption system

[NASA-CASE-NPO-14014-1] c 37 N79-10420
Variable response load limiting device --- for aircraft seats

[NASA-CASE-LAR-12801-1] c 37 N82-20544

SHOCK LOADS

Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

SHOCK MEASURING INSTRUMENTS

Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

SHOCK RESISTANCE

Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHOCK TUBES

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

SHOCK WAVE INTERACTION

Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

SHOCK WAVE LUMINESCENCE

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

SHOCK WAVE PROFILES

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

SHOCK WAVES

Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

SHOES

Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

SHORT CIRCUITS

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

SHOT PEENING

Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

SHOULDERS

Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

SHROUDED NOZZLES

Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

SHROUDED TURBINES

Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N86-32740

SHROUDS

Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N86-32740

SHUTTERS

High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

SHUTTLE DERIVED VEHICLES

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

SIDE INLETS

Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

SIDE BANDS

Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567

SIDELobe REDUCTION

Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

SIGNAL ANALYSIS

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N87-14676

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System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SIGNAL DETECTION

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

SIGNAL DETECTORS

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161

Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519

System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427

Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190

SIGNAL DISTORTION

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249

SIGNAL ENCODING

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Trellis coded modulation for transmission over fading mobile-satellite channel
[NASA-CASE-NPO-16904-1-CU] c 32 N87-18691

SIGNAL FADING

Trellis coded modulation for transmission over fading mobile-satellite channel
[NASA-CASE-NPO-16904-1-CU] c 32 N87-18691

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Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545

Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338

System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150

Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165

Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255

Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679

Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408

Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148

Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270

System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519

Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582

NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502

Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

SIGNAL MEASUREMENT

Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

SIGNAL MIXING

Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

SIGNAL PROCESSING

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537

Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622

Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742

Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804

Remodulator filter Patent
[NASA-CASE-NPO-10196] c 09 N71-24806

Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

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[NASA-CASE-NPO-10302] c 10 N71-26142

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138

Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139

Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172

Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225

Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119

Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172

Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187

Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121

Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081

Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050

Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096

Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626

Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539

Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518

Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386

Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731

Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375

Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073

Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578

System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559

Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

Frequency domain laser velocimeter signal
[NASA-CASE-LAR-13552-1-CU] c 33 N87-18761

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531

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[NASA-CASE-XNP-00748] c 07 N70-36911

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[NASA-CASE-XNP-10843] c 07 N71-11267

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[NASA-CASE-XGS-01222] c 10 N71-20841

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[NASA-CASE-XGS-03502] c 10 N71-20852

Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741

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[NASA-CASE-MSC-12205-1] c 07 N71-27056

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[NASA-CASE-ERC-10275] c 26 N72-25680

Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

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[NASA-CASE-XNP-10843] c 07 N71-11267

Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

SIGNAL STABILIZATION

Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138

System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982

Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

SIGNAL TO NOISE RATIOS

System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272

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[NASA-CASE-XNP-05254] c 07 N71-20791

Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545

Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119

Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258

System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146

Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241

Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788

SIGNAL TRANSMISSION

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974

Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182

Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298

Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392

Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791

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[NASA-CASE-XNP-01306] c 07 N71-20814

Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311

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[NASA-CASE-KSC-10108] c 14 N73-25461

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[NASA-CASE-KSC-10654-1] c 07 N73-30115

Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810

Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486

Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820

SIGNATURE ANALYSIS

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

SILANES

Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717

Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230

Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807

Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

Process for producing tris (s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N87-10205

SILICA GEL

Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

SILICA GLASS

Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454

High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

SILICATES

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

SILICIDES

Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040

Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229

SILICON

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560

Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449

Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600

Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920

Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231

System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703

Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389

Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113

Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475

Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

SILICON CARBIDES

A method for the deposition of beta-silicon carbide by isoelectrolysis
[NASA-CASE-ERC-10120] c 26 N69-33482

Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805

Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015

Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049

Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N87-10205

Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656

SILICON COMPOUNDS

Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607

Polymerizable disilanolates having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030

Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190

Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

SILICON CONTROLLED RECTIFIERS

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146

Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984

Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673

SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514

SILICON DIOXIDE

- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- SILICON DIOXIDE**
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MS-C-14270-1] c 27 N76-22377
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MS-C-18741-1] c 27 N82-29456
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- SILICON FILMS**
A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- SILICON JUNCTIONS**
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
- SILICON NITRIDES**
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- SILICON OXIDES**
Three-component ceramic coating for silica insulation
[NASA-CASE-MS-C-14270-2] c 27 N76-23426
- SILICON POLYMERS**
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N87-10205
- SILICON RADIATION DETECTORS**
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- SILICON TRANSISTORS**
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- SILICONE RESINS**
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- SILICONES**
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SILICONIZING**
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
- SILOXANES**
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148

- Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- SILVER**
Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- SILVER ALLOYS**
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
- SILVER CHLORIDES**
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- SILVER COMPOUNDS**
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MS-C-10960-1] c 03 N71-24718
- SILVER ZINC BATTERIES**
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- SIMULATION**
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-C-20202-1] c 54 N84-16803
- SIMULATORS**
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
- SIMULTANEOUS EQUATIONS**
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- SINE SERIES**
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- SINE WAVES**
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
- SINGLE CRYSTALS**
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

SINTERING

- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- SIZE (DIMENSIONS)**
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
- SIZE DETERMINATION**
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431
- SIZE SEPARATION**
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
- SIZING (SHAPING)**
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
- SIZING SCREENS**
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
- SKEWNESS**
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
- SKID LANDINGS**
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
- SKIN (ANATOMY)**
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- SKIN (STRUCTURAL MEMBER)**
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- SKIN FRICTION**
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
- SKIN TEMPERATURE (BIOLOGY)**
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
- SKIN TEMPERATURE (NON-BIOLOGICAL)**
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
- SKIRTS**
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
- SKY BRIGHTNESS**
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
- SLEEP**
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MS-C-13282-1] c 05 N71-24729
- SLEEVES**
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395

- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- Tapered, tubular polyester fabric
[NASA-CASE-MS-C-21082-1] c 27 N87-29672
- SLENDER BODIES**
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
- SLENDER WINGS**
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
- SLICING**
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
- System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
- Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
- SLIDING CONTACT**
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
- Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- SLIDING FRICTION**
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
- SLIP CASTING**
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
- SLITS**
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
- Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- SLOPES**
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- SLOT ANTENNAS**
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
- Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
- Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
- Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
- Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
- Spiral slotted phased antenna array
[NASA-CASE-MS-C-18532-1] c 32 N82-27558
- SLOTS**
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
- Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
- SLUDGE**
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
- SLURRIES**
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- SLURRY PROPELLANTS**
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
- SMOKE**
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- SODIUM CHLORIDES**
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- SODIUM VAPOR**
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- SOFT LANDING**
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
- SOFT LANDING SPACECRAFT**
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
- SOIL MECHANICS**
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- SOIL MOISTURE**
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- SOIL SCIENCE**
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
- System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- SOILS**
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
- Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- SOL-GEL PROCESSES**
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- SOLAR ACTIVITY**
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
- SOLAR ARRAYS**
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Solar energy powered heliotope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
- Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- SOLAR CELLS**
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
- Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
- Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
- Solar cell submodule Patent
[NASA-CASE-NPO-05821] c 03 N71-11056
- Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
- Solar cell matrix Patent
[NASA-CASE-XNP-10821] c 03 N71-19545
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
- Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
- Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
- Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
- Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
- Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
- Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
- Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571

- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
- Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- Combination photovoltaic-heat engine energy converter
[NASA-CASE-LEW-14252-1] c 44 N87-25630
- SOLAR COLLECTORS**
- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
- Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
- Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
- Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
- Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- SOLAR DYNAMIC POWER SYSTEMS**
- Combination photovoltaic-heat engine energy converter
[NASA-CASE-LEW-14252-1] c 44 N87-25630
- SOLAR ELECTRIC PROPULSION**
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- SOLAR ENERGY**
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- SOLAR ENERGY ABSORBERS**
- Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
- Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657
- Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- SOLAR ENERGY CONVERSION**
- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
- Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- Combination photovoltaic-heat engine energy converter
[NASA-CASE-LEW-14252-1] c 44 N87-25630
- SOLAR FLUX DENSITY**
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- SOLAR FURNACES**
- High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
- SOLAR GENERATORS**
- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- SOLAR GRAVITATION**
- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- SOLAR HEATING**
- Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
- Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686

SOLAR OBSERVATORIES

Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568

SOLAR PONDS (HEAT STORAGE)

Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792

SOLAR POSITION

Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

SOLAR POWERED AIRCRAFT

Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154

SOLAR RADIATION

Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

SOLAR RADIATION SHIELDING

High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036

SOLAR RADIO EMISSION

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

SOLAR REFLECTORS

Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433

SOLAR SAILS

Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

SOLAR SENSORS

Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526

Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Airborne tracking Sun photometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N86-21982

SOLAR SIMULATORS

High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

SOLAR-PUMPED LASERS

Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

SOLDERED JOINTS

Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214

SOLDERING

Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431

SOLDERS

Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

SOLENOID VALVES

Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SOLENOIDS

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
Fluid driven sump pump
[NASA-CASE-ARC-11414-1] c 37 N83-20152

SOLID CRYOGEN COOLING

Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

SOLID ELECTRODES

Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

SOLID LUBRICANTS

Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

SOLID PHASES

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

SOLID PROPELLANT IGNITION

Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SOLID PROPELLANT ROCKET ENGINES

Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

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Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710

SOLID ROCKET BINDERS

Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SOLID ROCKET PROPELLANTS

Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SOLID STATE
Solid state chemical source for ammonia beam maser
Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

SOLID STATE DEVICES
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Temperature compensated solid state differential
amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Transverse piezoresistance and pinch effect
electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Thermal to electrical power conversion system with
solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Full wave modulator-demodulator amplifier apparatus ---
for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Traveling wave solid state amplifier utilizing a
semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
Hermetically sealable package for hybrid solid-state
electronic devices and the like
[NASA-CASE-MS-20181-1] c 33 N82-28549
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

SOLID SURFACES
Dye penetrant for surfaces subsequently contacted by
liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

SOLID WASTES
Process of forming catalytic surfaces for wet oxidation
reactions
[NASA-CASE-MS-14831-1] c 25 N78-10225

SOLID-SOLID INTERFACES
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

SOLIDIFICATION
Method and apparatus for supercooling and solidifying
substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125

SOLIDIFIED GASES
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

SOLIDS FLOW
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

SOLUBILITY
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Insoluble polyelectrolyte and ion-exchange hollow fiber
impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method for the preparation of thin-skinned asymmetric
reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Method for growth of crystals by pressure reduction of
supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

SOLUTES

Specific wavelength colorimeter --- for measuring given
solute concentration in test sample
[NASA-CASE-MS-14081-1] c 35 N74-27860

SOLUTIONS

Method and apparatus for minimizing convection during
crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

SOLVENT EXTRACTION

Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
Infusion extractor
[NASA-CASE-MS-20761-1] c 37 N87-15465

SOLVENTS

Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Process for producing tris *s*-(*n*-methylamino)
methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Method for growth of crystals by pressure reduction of
supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
Production of butanol by fermentation in the presence
of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

SONAR

Method for shaping and aiming narrow beams --- sonar
mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

SONIC BOOMS

Instrumentation for measurement of aircraft noise and
sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Instrumentation for measuring aircraft noise and sonic
boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232

SORBATES

Apparatus for measuring a sorbate dispersed in a fluid
stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465

SORET COEFFICIENT

Method of growing composites of the type exhibiting
the Soret effect --- improved structure of eutectic alloy
crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187

SOUND GENERATORS

Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

SOUND LOCALIZATION

Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753

SOUND PRESSURE

Instrumentation for measurement of aircraft noise and
sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867

SOUND PROPAGATION

System for plotting subsoil structure and method
thereof
[NASA-CASE-NPO-14191-1] c 31 N80-32584

SOUND RANGING

Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

SOUND TRANSDUCERS

Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
Pulse transducer with artifact signal attenuator --- heart
rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

SOUND WAVES

Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Material suspension within an acoustically excited
resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837

Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

SOUNDING ROCKETS

Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Method and system for ejecting fairing sections from a
rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853

SPACE CAPSULES

Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675

SPACE CHARGE

Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314

SPACE COMMUNICATION

Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Apparatus providing a directive field pattern and attitude
sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Space communication system for compressed data with
a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

SPACE ENVIRONMENT SIMULATION

Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Apparatus for measuring electric field strength on the
surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Self-lubricating fluoride metal composite materials
Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Autignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Illumination system including a virtual light source
Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Diffuser/ejector system for a very high vacuum
environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Variable energy, high flux, ground-state atomic oxygen
source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661

SPACE ERECTABLE STRUCTURES

Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
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[NASA-CASE-NPO-10188] c 03 N71-20273

- Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
- Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
- Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
- Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
- Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
- Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N87-18596
- Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N87-25586
- SPACE EXPLORATION**
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
- SPACE FLIGHT**
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
- SPACE FLIGHT FEEDING**
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
- Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
- SPACE INDUSTRIALIZATION**
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- SPACE MAINTENANCE**
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- SPACE MANUFACTURING**
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
- Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
- Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- SPACE MISSIONS**
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
- Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017
- SPACE NAVIGATION**
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
- Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
- SPACE ORIENTATION**
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
- SPACE PLATFORMS**
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- SPACE POWER REACTORS**
Coaxial tube tether/transmission line for manned nuclear space power
[NASA-CASE-LEW-14338-1] c 20 N87-10174
- SPACE PROBES**
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- SPACE PROCESSING**
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
- Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
- Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
- Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
- SPACE RENDEZVOUS**
Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- SPACE SHUTTLE BOOSTERS**
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- SPACE SHUTTLE ORBITERS**
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
- High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- SPACE SHUTTLE PAYLOADS**
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- SPACE SHUTTLES**
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
- Fused silicone coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
- Dorsal fin for earth-to-orbit transports
[NASA-CASE-LAR-13127-1] c 18 N87-24524
- SPACE SIMULATORS**
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
- SPACE STATION POWER SUPPLIES**
Coaxial tube tether/transmission line for manned nuclear space power
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- SPACE STATION STRUCTURES**
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[NASA-CASE-MSC-20985-1] c 18 N87-15260
- SPACE STATIONS**
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[NASA-CASE-XLA-00258] c 31 N70-38676
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N87-15260
- Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N87-18595
- Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N87-18596
- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N87-18597
- Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N87-25583
- SPACE STORAGE**
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- SPACE SUITS**
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[NASA-CASE-XAC-00405] c 05 N70-41819
- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599
- Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
- G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
- Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
- Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
- Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
- Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
- Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
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[NASA-CASE-MSC-21082-1] c 27 N87-29672
- SPACE TOOLS**
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- SPACE TRANSPORTATION SYSTEM**
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
- SPACE VEHICLE CHECKOUT PROGRAM**
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
- SPACEBORNE EXPERIMENTS**
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
- SPACEBORNE TELESCOPES**
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- SPACECRAFT**
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- SPACECRAFT ANTENNAS**
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

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- Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
- SPACECRAFT COMMUNICATION**
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Trellis coded modulation for transmission over fading mobile-satellite channel
[NASA-CASE-NPO-16904-1-CU] c 32 N87-18691
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
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[NASA-CASE-NPO-15982-1] c 60 N87-21591
- SPACECRAFT COMPONENTS**
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- SPACECRAFT CONFIGURATIONS**
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582

- Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- SPACECRAFT CONSTRUCTION MATERIALS**
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
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[NASA-CASE-LEW-14072-3] c 27 N87-23736
- SPACECRAFT CONTROL**
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
- SPACECRAFT DESIGN**
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

- Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
- Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
- Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- Dorsal fin for earth-to-orbit transports
[NASA-CASE-LAR-13127-1] c 18 N87-24524
- SPACECRAFT DOCKING**
- Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346
- Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
- Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
- Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-25876
- Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
- Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
- Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
- Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- Range and range rate system --- for use with orbiting vehicles during docking and closing maneuvers
[NASA-CASE-MSC-20867-1] c 36 N87-25570
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
- SPACECRAFT ELECTRONIC EQUIPMENT**
- Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
- Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- SPACECRAFT ENVIRONMENTS**
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
- Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
- Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
- Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- SPACECRAFT EQUIPMENT**
- Four-terminal electrical testing device --- initiator bridewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- Range and range rate system --- for use with orbiting vehicles during docking and closing maneuvers
[NASA-CASE-MSC-20867-1] c 36 N87-25570
- Capillary heat transport and fluid management device --- spacecraft thermal control
[NASA-CASE-MFS-28217-1] c 34 N87-29769
- SPACECRAFT GUIDANCE**
- Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- SPACECRAFT INSTRUMENTS**
- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
- Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
- Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
- Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
- Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
- Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
- SPACECRAFT LANDING**
- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
- SPACECRAFT LAUNCHING**
- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
- SPACECRAFT MODELS**
- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- SPACECRAFT MODULES**
- Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
- Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
- Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- SPACECRAFT MOTION**
- Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
- SPACECRAFT POSITION INDICATORS**
- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- SPACECRAFT POWER SUPPLIES**
- Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
- Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
- Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612
- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744
- Coaxial tube tether/transmission line for manned nuclear space power
[NASA-CASE-LEW-14338-1] c 20 N87-10174
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N87-25335
- SPACECRAFT PROPULSION**
- Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
- Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
- General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- SPACECRAFT RADIATORS**
- Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
- Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
- Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N87-15452
- Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
- SPACECRAFT RECOVERY**
- Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
- Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
- SPACECRAFT REENTRY**
- Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
- Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N87-14442
- SPACECRAFT SHIELDING**
- Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
- Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
- Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
- Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363

SPACECRAFT STABILITY

- High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
- SPACECRAFT STABILITY**
- Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
- Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
- Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
- Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
- SPACECRAFT STRUCTURES**
- Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
- Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
- Spacecraft radiator cover Patent
[NASA-CASE-MS-C-12049] c 31 N71-16080
- Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
- Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
- Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
- Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
- Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
- Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
- Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MS-C-12615-1] c 37 N76-19437
- Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Dorsal fin for earth-to-orbit transports
[NASA-CASE-LAR-13127-1] c 18 N87-24524
- SPACECRAFT TELEVISION**
- Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
- Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- Optical conversion method --- for spacecraft television
[NASA-CASE-MS-C-12618-1] c 74 N78-17865
- SPACECRAFT TEMPERATURE**
- Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
- Capillary heat transport and fluid management device --- spacecraft thermal control
[NASA-CASE-MFS-28217-1] c 34 N87-29769
- SPACECRAFT TRACKING**
- Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
- Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
- Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
- SPACECREWS**
- Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
- SPACELAB PAYLOADS**
- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPALLATION

- Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

SPARK CHAMBERS

- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
- Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

SPARK GAPS

- Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

SPARK IGNITION

- High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

SPARK PLUGS

- High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925

SPATIAL DISTRIBUTION

- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

SPATIAL FILTERING

- Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

SPATIAL RESOLUTION

- Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

SPECTRAL BANDS

- Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

SPECTRAL CORRELATION

- Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

SPECTRAL REFLECTANCE

- Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

SPECTRAL SENSITIVITY

- Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

SPECTRAL SIGNATURES

- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

SPECTROMETERS

- Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
- Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
- Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
- Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
- Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
- Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
- Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
- Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
- Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
- Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
- Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
- Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
- Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
- SPECTROPHOTOMETERS**
- Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
- High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
- Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
- SPECTRORADIOMETERS**
- Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
- SPECTROSCOPIC ANALYSIS**
- Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- SPECTRUM ANALYSIS**
- Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- SPECULAR REFLECTION**
- Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
- SPEECH BASEBAND COMPRESSION**
- Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MS-C-20821-1] c 17 N87-25348
- SPEECH RECOGNITION**
- Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
- SPEED CONTROL**
- System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
- Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
- Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
- Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- SPEED INDICATORS**
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- SPEED REGULATORS**
- A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
- SPHERES**
- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
- Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- SPHERICAL SHELLS**
- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N87-19116
- SPHERICAL TANKS**
- Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
- SPHERICAL WAVES**
- Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
- SPHYGMOGRAPHY**
- Logic-controlled occlusive cuff system
[NASA-CASE-MS-C-14836-1] c 52 N82-11770

SPIKE NOZZLES

Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

SPIKE POTENTIALS

Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

SPILLING

Spillage detector for liquid chromatography systems
[NASA-CASE-MS-C-20206-1] c 25 N86-27431

SPIN DYNAMICS

Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

SPIN REDUCTION

Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

SPIN STABILIZATION

Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Passive dual spin misalignment compensators --- gyro-stabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SPINDLES

Variable contour securing system
[NASA-CASE-MS-C-16270-1] c 37 N78-27423

SPIKE

Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

SPIRAL ANTENNAS

Spiral slotted phased antenna array
[NASA-CASE-MS-C-18532-1] c 32 N82-27558

SPIRAL WRAPPING

Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

SPIRALES (CONCENTRATORS)

Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

SPIROMETERS

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

SPICING

Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

SPLINTS

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

SPOILERS

Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

SPORES

Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178

SPOT WELDS

Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

SPRAY CHARACTERISTICS

Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

SPRAY NOZZLES

Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689

SPRAYED COATINGS

Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MS-C-18852-1] c 37 N85-29283
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

SPRAYERS

External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MS-C-18852-1] c 37 N85-29283
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689

SPRAYING

Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SPREAD SPECTRUM TRANSMISSION

Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

SPREADING

Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

SPRINGS (ELASTIC)

Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Locking hinge
[NASA-CASE-MS-C-21056-1] c 18 N87-18595
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

SPUTTERING

A method for the deposition of beta-silicon carbide by isoeptitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N85-33826
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

SQUARE WAVES

High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

SQUARES (MATHEMATICS)

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

SQUEEZE FILMS

Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

SQUIBS

Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

STABILITY

Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

STABILITY AUGMENTATION

Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

STABILITY TESTS

Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146

STABILIZATION

Ultrastable calibrated light source
[NASA-CASE-MS-C-12293-1] c 14 N72-27411
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386

STABILIZED PLATFORMS

- Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Method and apparatus for transfer function simulator
for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- STABILIZED PLATFORMS**
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Failure detection and control means for improved drift
performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- STABILIZERS**
Satellite despoin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
- STABILIZERS (AGENTS)**
Hydrazinium nitroformate propellant stabilized with
nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
- STABILIZERS (FLUID DYNAMICS)**
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Apparatus for automatically stabilizing the attitude of a
nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Externally supported internally stabilized flexible duct
joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- STABLE OSCILLATIONS**
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- STACKS**
Remote fire stack igniter --- with solenoid-controlled
valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
- STAGE SEPARATION**
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Missile stage separation indicator and stage initiator
Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
Spacecraft separation system for spinning vehicles
and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system
Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
Lateral displacement system for separated rocket stages
Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- STAGNATION PRESSURE**
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Stagnation pressure probe --- for measuring pressure
of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
- STAGNATION TEMPERATURE**
Enthalpy and stagnation temperature determination of
a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- STAINING**
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
- STAINLESS STEELS**
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Ultrasonic scanning system for in-place inspection of
braze tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Method of forming dynamic membrane on stainless steel
support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
Moving body velocity arresting line --- stainless steel
cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601

STAMPING

- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Ultrasonic angle beam standard reflector --- ultrasonic
nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- STANDARDS**
Microwave integrated circuit for Josephson voltage
standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Ultrasonic angle beam standard reflector --- ultrasonic
nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- STANDING WAVES**
Method and apparatus for shaping and enhancing
acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Image readout device with electronically variable spatial
resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- STAR TRACKERS**
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
Sun tracker with rotatable plane-parallel plate and two
photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Canopus detector including automotive gain control of
photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Spacecraft attitude detection system by stellar reference
Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Star tracking reticles and process for the production
thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner --- with a reticle with a pair of slits having
differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886
Programmable scan/read circuitry for charge coupled
device imaging detectors --- spacecraft attitude control and
star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- STARK EFFECT**
Resonant waveguide stark cell --- using microwave
spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
Stark cell optoacoustic detection of constituent gases
in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophotometer for continuous absorption
spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- STARTERS**
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
Motor power factor controller with a reduced voltage
starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
- STARTING**
Portable device for use in starting air-start-units for
aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N87-25335
- STATIC DEFORMATION**
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
- STATIC DISCHARGERS**
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- STATIC FRICTION**
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
- STATIC INVERTERS**
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

STATIC LOADS

- Instrument for measuring torsional creep and recovery
Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
- STATIC PRESSURE**
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
Static pressure orifice system testing method and
apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
Porous plug for reducing orifice induced pressure error
in airfoils
[NASA-CASE-LAR-13569-1] c 35 N87-25559
- STATIONKEEPING**
Station keeping of a gravity gradient stabilized satellite
Patent
[NASA-CASE-XLA-03132] c 31 N71-22969
- STATISTICAL CORRELATION**
Optical probing of supersonic flows with statistical
correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
- STATOR BLADES**
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
- STATORS**
Nickel base alloy --- for gas turbine engine stator
vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Natural turbulence electrical power generator --- using
wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Brushless DC motor control system responsive to control
signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
- STEADY STATE**
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
- STEAM**
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
- STEAM TURBINES**
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
- STEELS**
Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N86-32556
- STEERABLE ANTENNAS**
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N87-29718
- STEERING**
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
- STELLAR LUMINOSITY**
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
- STELLAR SPECTRA**
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
- STENCIL PROCESSES**
Method of tracing contour patterns for use in making
gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
- STEPPING MOTORS**
Scanner --- photography from a spin stabilized
synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- STEREOPHOTOGRAPHY**
Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
- STEREOSCOPIC VISION**
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728

STEREOSCOPY

Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920

STERILIZATION

Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Processing for producing a sterilized instrument
Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Protein sterilization method of firefly luciferase using
reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
System for sterilizing objects --- cleaning space vehicle
systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

STERILIZATION EFFECTS

Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200

STIFFENING

Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Integrally-stiffened crash energy-absorbing subfloor
beam structure
[NASA-CASE-LAR-13697-1] c 05 N87-25321

STIFFNESS

Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

STILBENE

Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

STIMULATED EMISSION

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

STIRLING CYCLE

Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

STIRLING ENGINES

Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

STIRRING

Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

STOICHIOMETRY

Sulfone-ester polymers containing pendent ethynyl
groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

STORAGE

Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

STORAGE BATTERIES

Bonded elastomeric seal for electrochemical cells
Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-12327-1] c 44 N76-18641
Rechargeable battery which combats shape change of
the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Formulated plastic separators for soluble electrode cells
--- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

Toroidal cell and battery --- storage battery for high
amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

STORAGE STABILITY

Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas diffusion liquid storage bag and method of use for
storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Method for retarding dye fading during archival storage
of developed color photographic film --- inert
atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

STORAGE TANKS

Expulsion bladder-equipped storage tank structure
Patent
[NASA-CASE-XNP-00612] c 11 N70-38182
Method for leakage testing of tanks
[NASA-CASE-XMF-02392] c 32 N71-24285
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393

STOWAGE (ONBOARD EQUIPMENT)

Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N87-18595
Expandable pallet for space station interface
attachments
[NASA-CASE-MSC-21117-1] c 18 N87-18597

STRAIN GAGE ACCELEROMETERS

Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

STRAIN GAGE BALANCES

Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656

STRAIN GAGES

Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Strain sensor for high temperatures
[NASA-CASE-XNP-09205] c 14 N71-17657
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Method of temperature compensating semiconductor
strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Method of making semiconductor p-n junction stress
and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Device for monitoring a change in mass in varying
gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Strain gauge ambiguity sensor for segmented mirror
active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Subminiature insertable force transducer --- including a
strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Pulsed phase locked loop strain monitor --- voltage
controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019

Thin film strain transducer --- suitable for in-flight
measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

STRAIN MEASUREMENT

Thin film strain transducer --- suitable for in-flight
measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

STRAIN RATE

Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019

STRAKES

Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N87-23630

STRAPDOWN INERTIAL GUIDANCE

All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

STRAPS

Meter for use in detecting tension in straps having
predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393

STRATIGRAPHY

System for plotting subsoil structure and method
thereof
[NASA-CASE-NPO-14191-1] c 31 N80-32584

STREAMS

Apparatus for measuring a sorbate dispersed in a fluid
stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465

STRESS ANALYSIS

Method and apparatus for measuring the damping
characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523

STRESS CONCENTRATION

Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369

STRESS CORROSION

Method of inhibiting stress corrosion cracks in titanium
alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

STRESS MEASUREMENT

Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

STRESS RELAXATION

Method for alleviating thermal stress damage in
laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170

STRESS RELIEVING

All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628

STRESSES

Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Strain arrestor plate for fused silica tile --- bonding of
thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Fixture for environmental exposure of structural
materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

STRETCHERS

Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

STRETCHING

Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

STRINGERS

- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- STRINGS**
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- STRIP TRANSMISSION LINES**
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Microwave switching power divider --- antenna feeds
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[NASA-CASE-MSC-19442-1] c 74 N77-10899
- STRUCTURAL DESIGN**
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[NASA-CASE-XMS-00863] c 05 N70-34857
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[NASA-CASE-FRC-10063] c 01 N71-12217
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[NASA-CASE-XLA-04901] c 31 N71-24315
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Lightweight reflector assembly
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[NASA-CASE-MFS-23349-1] c 44 N79-23481
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[NASA-CASE-MFS-28030-1] c 35 N86-25752
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Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
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- STRUCTURAL ENGINEERING**
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- STRUCTURAL FAILURE**
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[NASA-CASE-XMS-05303] c 07 N69-27462
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[NASA-CASE-XNP-02029] c 14 N70-41955
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[NASA-CASE-XLA-01807] c 15 N71-10799
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[NASA-CASE-NPO-10646] c 15 N71-28467
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
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[NASA-CASE-XLA-11028-1] c 24 N74-27035
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[NASA-CASE-XHQ-02146] c 18 N75-27040
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
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[NASA-CASE-LAR-12482-1] c 37 N82-32732
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[NASA-CASE-LAR-13009-1] c 37 N85-29285
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[NASA-CASE-MSC-19372-1] c 39 N76-31562
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- STRUCTURAL VIBRATION**
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[NASA-CASE-MFS-14741] c 09 N70-20737
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- Active notch filter network with variable notch depth, width and frequency
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[NASA-CASE-LAR-11900-1] c 37 N79-14382
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[NASA-CASE-MFS-18495] c 15 N72-11385
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[NASA-CASE-MFS-20299] c 15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
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[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
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[NASA-CASE-MSC-14903-3] c 27 N80-24438
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[NASA-CASE-NPO-16103-1] c 27 N85-29043
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[NASA-CASE-NPO-15772-1] c 76 N85-29800
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[NASA-CASE-ARC-10912-1] c 34 N77-19353
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- SUBMARINES**
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[NASA-CASE-ARC-11040-2] c 24 N78-27184
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Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
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- SUBMILLIMETER WAVES**
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[NASA-CASE-LEW-13570-1] c 33 N84-16452
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[NASA-CASE-NPO-16372-1] c 72 N86-33127
- SUBMINIATURIZATION**
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- SUBREFLECTORS**
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
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- SUBSONIC FLOW**
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
- SUBSONIC SPEED**
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- SUBSONIC WIND TUNNELS**
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[NASA-CASE-XLA-07430] c 11 N72-22246

SUBSTRATES

- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
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[NASA-CASE-LEW-13169-2] c 26 N82-30371
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[NASA-CASE-LAR-12363-1] c 35 N82-31659
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[NASA-CASE-LEW-13131-1] c 44 N83-10494
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
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[NASA-CASE-LEW-13526-1] c 36 N84-22944
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[NASA-CASE-LEW-13639-2] c 26 N84-27855
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[NASA-CASE-LEW-13639-1] c 26 N84-33555
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[NASA-CASE-NPO-16155-1] c 44 N85-30475
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[NASA-CASE-MSC-20036-1] c 76 N85-33826
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[NASA-CASE-LEW-14057-1] c 24 N85-35233
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[NASA-CASE-LEW-13923-1] c 26 N85-35267
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[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
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[NASA-CASE-XNP-06031] c 15 N71-15606
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918
- SUCTION**
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[NASA-CASE-LAR-12625-1] c 02 N83-19715
- SUGARS**
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[NASA-CASE-NPO-16203-1] c 23 N85-35227
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[NASA-CASE-ARC-10099-1] c 18 N71-15469
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[NASA-CASE-NPO-16135-1] c 25 N83-24572
- SULFONES**
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[NASA-CASE-LAR-11042-1] c 33 N75-27252
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[NASA-CASE-LAR-12931-1] c 27 N84-22747
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
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[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450

Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

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Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

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Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

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Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
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[NASA-CASE-MSC-16258-1] c 45 N79-12584

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[NASA-CASE-ARC-11243-2] c 23 N85-33187

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Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693

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[NASA-CASE-ARC-11414-1] c 37 N83-20152

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Sun tracking solar energy collector
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[NASA-CASE-XMS-06064] c 05 N71-23096

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[NASA-CASE-KSC-11010-1] c 74 N79-12890
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
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[NASA-CASE-MSC-20162-1] c 37 N87-17036

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[NASA-CASE-XLE-02062-1] c 20 N80-14188
Diesel engine catalytic combustor system --- aircraft engines
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Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

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[NASA-CASE-XLE-02823] c 09 N71-23443
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[NASA-CASE-MSC-12259-2] c 07 N72-33146
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
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[NASA-CASE-NPO-13348-1] c 33 N75-31332
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[NASA-CASE-XMF-01099] c 14 N71-15969
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[NASA-CASE-LEW-11726-1] c 26 N73-26752
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[NASA-CASE-LEW-11015] c 26 N73-32571
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320

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Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

SUPERCritical FLUIDS

Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

SUPERCritical PRESSURES

Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

SUPERFLUIDITY

Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

SUPERHEATING

Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

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Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

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Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1CU] c 76 N87-15883

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Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

SUPERSONIC AIRCRAFT

Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217

SUPERSONIC COMBUSTION
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[NASA-CASE-LEW-11058-1] c 20 N74-13502
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC DRAG

Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

SUPERSONIC FLIGHT

Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
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[NASA-CASE-XLA-08967] c 02 N71-27088

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[NASA-CASE-MFS-20642] c 14 N72-21407
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
A multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N87-25320

SUPERSONIC INLETS

Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

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Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

SUPERSONIC SPEED

Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946

SURFACE ACOUSTIC WAVE DEVICES

Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429

SUPERSONIC TRANSPORTS
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
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[NASA-CASE-GSC-10087-1] c 02 N71-19287
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086

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Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

SUPPORT INTERFERENCE
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404

SUPPORT SYSTEMS
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Multi-legged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

SUPPORTS
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

SUPPRESSORS
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

SURFACE ACOUSTIC WAVE DEVICES
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

SURFACE CRACKS

SURFACE CRACKS

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SURFACE DEFECTS

Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879

SURFACE DIFFUSION

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

SURFACE FINISHING

Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N86-32556
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

SURFACE IONIZATION

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

SURFACE LAYERS

Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

SURFACE PROPERTIES

Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

SURFACE REACTIONS

Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

SURFACE ROUGHNESS

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

SURFACE ROUGHNESS EFFECTS

Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

SURFACE TEMPERATURE

Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

SURFACE VEHICLES

Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755

SURFACE WAVES

Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

SURFACES

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429

SURFACTANTS

Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

SURGERY

Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

SURGES

Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

SURGICAL INSTRUMENTS

Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

SURVIVAL EQUIPMENT

Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

SUSPENDING (HANGING)

Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

SUSPENSION SYSTEMS (VEHICLES)

Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

SWEAT

Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

SWEAT COOLING

Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

SWEEP CIRCUITS

Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

SWEEP EFFECT

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

SWEEP FREQUENCY

Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

SWELLING

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

SWEEP FORWARD WINGS

High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N87-18561

SWEEP WINGS

Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016

SWIRLING

Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

SWITCHES

Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Laser activated MTOs microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

SWITCHING

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

SWITCHING CIRCUITS

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915

- Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
- Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
- Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
- SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
- Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
- A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
- Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
- Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
- Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
- Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
- Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
- Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
- Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
- Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
- Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
- Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
- Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
- Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
- Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MS-13492-1] c 10 N71-28860
- Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
- Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
- Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
- Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
- Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
- Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
- Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-2162
- Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
- Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
- Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
- Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
- CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
- Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
- Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
- Transparent switchboard
[NASA-CASE-MS-13746-1] c 10 N73-32143
- High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
- Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
- Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
- Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- System for automatically switching transformer coupled lines
[NASA-CASE-MS-16697-1] c 33 N79-28415
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
- Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
- Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
- Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
- Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
- Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
- Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
- SWITCHING THEORY**
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
- SWIVELS**
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- SYNCHRONISM**
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
- Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
- Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
- Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- SYNCHRONIZED OSCILLATORS**
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
- Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
- Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
- Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
- SYNCHRONIZERS**
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
- Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
- Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
- Pulse code modulated signal synchronizer
[NASA-CASE-MS-12462-1] c 32 N74-20809
- Pulse code modulated signal synchronizer
[NASA-CASE-MS-12494-1] c 32 N74-20810
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
- SYNCHRONOUS MOTORS**
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
- Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
- SYNCHRONOUS SATELLITES**
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
- Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
- Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
- Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- Synchronous orbit battery cyclers
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
- Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
- SYNTHESIS**
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
- Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
- SYNTHESIS (CHEMISTRY)**
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Bifunctional monomers having terminal oxime and cyano or amine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
- Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
- Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
- Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-LAR-11429-1-CU] c 27 N86-20560
- Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- Polymer of phosphonimethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N87-10205
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis --- synthetic routes to monomers for polyimides
[NASA-CASE-LEW-14345-1] c 23 N87-14432
- New condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N87-14433
- The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
- Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
- Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxophosphoryl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- Aminophenoxycyclotriphenylphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N87-25475
- SYNTHESIZERS**
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- SYNTHETIC APERTURE RADAR**
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
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- Method and apparatus for contour mapping using synthetic aperture radar
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- SYNTHETIC FIBERS**
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- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
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- SYNTHETIC FUELS**
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- Method for forming pyrrone molding powders and products of said method
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- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
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- SYSTEM FAILURES**
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- Fault tolerant clock apparatus utilizing a controlled minority of clock elements
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- Apparatus for sensor failure detection and correction in a gas turbine engine control system
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- SYSTEMS ANALYSIS**
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- SYSTEMS ENGINEERING**
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[NASA-CASE-XNP-07481] c 25 N69-21929
- Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
- Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
- Out of tolerance warning alarm system for plurality of monitored circuits Patent
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- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
- Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
- Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
- Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- Inflatable support structure Patent
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- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
- Spin forming tubular elbows Patent
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- Station keeping of a gravity gradient stabilized satellite Patent
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- Refrigeration apparatus Patent
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- Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
- Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
- Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Transducer circuit and catheter transducer Patent
[NASA-CASE-XGS-10132-1] c 09 N71-24597
- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
- Attitude control system for sounding rockets Patent
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- Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
- Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
- Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
- Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
- Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
- Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
- Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
- Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
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- Electric storage battery
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[NASA-CASE-NPO-11311] c 14 N72-25414
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[NASA-CASE-MSC-13397-1] c 21 N72-25595
- Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- Measurement system
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- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
- Three mirror glancing incidence system for X-ray telescope
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- Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
- Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
- Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
- Horizontally mounted solar collector
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- Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

- A system for controlling the oxygen content of a gas produced by combustion
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- Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
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- Aircraft rotor blade with passive tuned tab
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- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
- Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
- Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- TAIL ASSEMBLIES**
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[NASA-CASE-MSC-18422-1] c 37 N82-16408
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- TAKEOFF**
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- TANGENTS**
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[NASA-CASE-MSC-13907-1] c 10 N73-26230
- TANK GEOMETRY**
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
- TANKERS**
Tanker orbit transfer vehicle and method
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- TANKS (COMBAT VEHICLES)**
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[NASA-CASE-NPO-16321-1CU] c 37 N87-17034
- TANKS (CONTAINERS)**
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
- Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
- Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- TANTALUM**
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- TANTALUM ALLOYS**
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- Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
- TANTALUM CARBIDES**
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[NASA-CASE-LAR-11902-1] c 27 N78-17206
- TANTALUM OXIDES**
Thin film temperature sensor and method of making same
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- TAPE RECORDERS**
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

- Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
- Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
- Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
- Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
- Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
- Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
- Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
- Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
- A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
- Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
- Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
- Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
- Method of and means for testing a tape record/playback system
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- TAPERED COLUMNS**
Method of making a rocket motor casing Patent
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- Rocket motor casing Patent
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- TAPES**
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- TARGET ACQUISITION**
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- Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
- Intruder detection system
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- TARGET RECOGNITION**
Electronic background suppression method and apparatus for a field scanning sensor
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- TARGET SIMULATORS**
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
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- Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- TARGETS**
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
- Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
- TEETH**
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- TEFLON (TRADEMARK)**
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- TELECOMMUNICATION**
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
- Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
- Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
- Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
- Minimal logic block encoder Patent
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- Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
- Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
- Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
- Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
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Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
- Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
- Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
- Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
- Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
- Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
- Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
- Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
- TELEOPERATORS**
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
- TELEPHONES**
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- TELEPHONY**
Digital communication system
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- TELESCOPES**
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
- Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
- TELETYPEWRITER SYSTEMS**
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
- TELEVISION CAMERAS**
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850

TELEVISION EQUIPMENT

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

TELEVISION RECEIVERS

Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

TELEVISION RECEPTION

Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

TELEVISION SYSTEMS

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

TELEVISION TRANSMISSION

Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

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Targets for producing high purity I-123
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TEMPERATURE

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

TEMPERATURE COMPENSATION

Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

Temperature compensated current source
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TEMPERATURE CONTROL

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N87-19116
Capillary heat transport and fluid management device --- spacecraft thermal control
[NASA-CASE-MFS-28217-1] c 34 N87-29769

TEMPERATURE DISTRIBUTION

Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

TEMPERATURE EFFECTS

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1CU] c 37 N87-21334

TEMPERATURE GRADIENTS

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

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Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686

- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- TEMPERATURE MEASURING INSTRUMENTS**
- Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
- Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
- Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
- Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
- High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- TEMPERATURE PROBES**
- Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- TEMPERATURE PROFILES**
- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- TEMPERATURE SENSORS**
- Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
- Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
- Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
- Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
- Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- TEMPLATES**
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- TENSILE STRENGTH**
- Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
- Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
- Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
- Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
- Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- TENSILE STRESS**
- Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- TENSILE TESTS**
- Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
- Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
- Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
- Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
- Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
- Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
- Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
- Bearing bypass material testing system
[NASA-CASE-LAR-13458-1] c 35 N87-25556
- Technique for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N87-25577
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- TENSION**
- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- TERMINAL GUIDANCE**
- Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
- Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- TERNARY SYSTEMS**
- Nickel ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- TERRAIN**
- Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- TERRAIN ANALYSIS**
- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
- TEST CHAMBERS**
- Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
- Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
- Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
- Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
- Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
- TEST EQUIPMENT**
- Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
- Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
- Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
- Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
- Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
- Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
- Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
- Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
- Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
- Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
- Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
- Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
- Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
- Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
- Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
- Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
- Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
- Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
- TEST FACILITIES**
- Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
- Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
- Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
- TEST STANDS**
- Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
- Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
- Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
- TEST VEHICLES**
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- TETHERED SATELLITES**
- Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
- TETHERING**
- Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
- Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
- TETHERLINES**
- Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
- Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
- Coaxial tube tether/transmission line for manned nuclear space power
[NASA-CASE-LEW-14338-1] c 20 N87-10174
- Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

TETRAETHYL ORTHOSILICATE

- Densification of porous refractory substrates --- space shuttle orbiter tiles
 [NASA-CASE-MSC-18737-1] c 24 N83-13171
 Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
 [NASA-CASE-MSC-18736-1] c 24 N83-13172

TETRAPHENYLS

- Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
 [NASA-CASE-HQN-10364] c 06 N71-27363

TEXTILES

- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
 [NASA-CASE-MSC-14331-1] c 27 N76-24405

TEXTS

- Braille reading system
 [NASA-CASE-LAR-13306-1] c 82 N87-29372

TEXTURES

- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
 [NASA-CASE-LEW-13027-1] c 27 N80-24437
 Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
 [NASA-CASE-LEW-13120-1] c 27 N82-28440
 Surface texturing of fluoropolymers
 [NASA-CASE-LEW-13028-1] c 27 N82-33521
 Ion sputter textured graphite --- anode collector plates in electron tube devices
 [NASA-CASE-LEW-12919-1] c 24 N83-10117

THERAPY

- Hyperthermia heating apparatus --- cancer therapy
 [NASA-CASE-NPO-14549-2] c 52 N82-33996

THERMAL ABSORPTION

- Constant temperature heat sink for calorimeters Patent
 [NASA-CASE-XMF-04208] c 33 N71-29051
 Solar pond
 [NASA-CASE-NPO-13581-2] c 44 N78-31525

THERMAL COMFORT

- Thermal garment
 [NASA-CASE-XMS-03694-1] c 54 N82-29002

THERMAL CONDUCTIVITY

- Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
 [NASA-CASE-XLE-00266] c 14 N70-34156
 Apparatus for measuring thermal conductivity Patent
 [NASA-CASE-XGS-01052] c 14 N71-15992
 Heated element fluid flow sensor Patent
 [NASA-CASE-MSC-12084-1] c 12 N71-17569
 Method and apparatus for varying thermal conductivity Patent
 [NASA-CASE-XNP-05524] c 33 N71-24876
 Thermally conductive polymers
 [NASA-CASE-GSC-11304-1] c 06 N72-21105
 Electrostatically controlled heat shutter
 [NASA-CASE-NPO-11942-1] c 33 N73-32818
 Thermal barrier coating system
 [NASA-CASE-LEW-12554-1] c 34 N78-18355
 Support assembly for cryogenically coolable low-noise choke waveguide
 [NASA-CASE-NPO-14253-1] c 32 N80-32605
 Automatic thermal switch --- spacecraft applications
 [NASA-CASE-GSC-12553-1] c 34 N83-28356

THERMAL CONDUCTORS

- Thermal conductive connection and method of making same Patent
 [NASA-CASE-XMS-02087] c 09 N70-41717
 Solar energy absorber
 [NASA-CASE-MFS-22743-1] c 44 N76-22657

THERMAL CONTROL COATINGS

- Thermal control coating Patent
 [NASA-CASE-XLA-01995] c 18 N71-23047
 Stabilized zinc oxide coating compositions Patent
 [NASA-CASE-XMF-07770-2] c 18 N71-26772
 Inorganic thermal control coatings
 [NASA-CASE-MFS-20011] c 18 N72-22566
 Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
 [NASA-CASE-ARC-10325] c 06 N72-25147
 Refractory porcelain enamel passive control coating for high temperature alloys
 [NASA-CASE-MFS-22324-1] c 27 N75-27160
 Particulate and solar radiation stable coating for spacecraft
 [NASA-CASE-LAR-10805-2] c 34 N77-18382
 Method of preparing zinc orthotitanate pigment
 [NASA-CASE-MFS-23345-1] c 27 N77-30237
 Intumescent coatings containing 4,4'-dinitrosulfanilide
 [NASA-CASE-ARC-11042-1] c 24 N78-14096
 Thermal barrier coating system
 [NASA-CASE-LEW-12554-1] c 34 N78-18355

High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings

- [NASA-CASE-NPO-13690-1] c 27 N78-19302
 Intumescent-ablator coatings using endothermic fillers
 [NASA-CASE-ARC-11043-1] c 24 N78-27180
 Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
 [NASA-CASE-MSC-12662-1] c 33 N79-12331
 Electrically conductive thermal control coatings
 [NASA-CASE-GSC-12207-1] c 24 N79-14156
 High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
 [NASA-CASE-ARC-11164-1] c 44 N83-34448
 Variable anodic thermal control coating
 [NASA-CASE-LAR-12719-1] c 44 N83-34449

THERMAL DEGRADATION

- Protection for energy conversion systems
 [NASA-CASE-XGS-04808] c 03 N69-25146
 Electrical apparatus for detection of thermal decomposition of insulation Patent
 [NASA-CASE-XMF-03958] c 14 N71-27186

THERMAL DIFFUSIVITY

- Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
 [NASA-CASE-NPO-14657-1] c 74 N81-17887

THERMAL EMISSION

- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
 [NASA-CASE-WOO-00428-1] c 32 N79-19186
 Continuous laminar smoke generator
 [NASA-CASE-LAR-13014-1] c 09 N85-21178

THERMAL ENERGY

- Energy conversion apparatus Patent
 [NASA-CASE-XLE-00212] c 03 N70-34134
 Device for directionally controlling electromagnetic radiation Patent
 [NASA-CASE-XLE-01716] c 09 N70-40234
 Thermally activated foaming compositions Patent
 [NASA-CASE-LAR-10373-1] c 18 N71-26155
 Gas core nuclear reactor Patent
 [NASA-CASE-LEW-10250-1] c 22 N71-28759
 Electrostatically controlled heat shutter
 [NASA-CASE-NPO-11942-1] c 33 N73-32818
 Solid medium thermal engine
 [NASA-CASE-ARC-10461-1] c 44 N74-33379
 Panel for selectively absorbing solar thermal energy and the method of producing said panel
 [NASA-CASE-MFS-22562-1] c 44 N76-14595
 Thermal energy storage system --- operating on superheating of liquids
 [NASA-CASE-MFS-23167-1] c 44 N76-31667
 Low to high temperature energy conversion system
 [NASA-CASE-NPO-13510-1] c 44 N77-32581
 Thermal energy transformer
 [NASA-CASE-NPO-14058-1] c 44 N79-18443
 Apparatus for improving the fuel efficiency of a gas turbine engine
 [NASA-CASE-LEW-13142-1] c 07 N83-36029
 Method for improving the fuel efficiency of a gas turbine engine
 [NASA-CASE-LEW-13142-2] c 07 N86-20389

THERMAL EXPANSION

- Thermally operated valve Patent
 [NASA-CASE-XLE-00815] c 15 N70-35407
 Adjustable mount for a trihedral mirror Patent
 [NASA-CASE-XNP-08907] c 23 N71-29123
 Thermal motor
 [NASA-CASE-NPO-11283] c 09 N72-25260
 Glass-to-metal seals comprising relatively high expansion metals
 [NASA-CASE-LEW-10698-1] c 37 N74-21063
 Daze fasteners
 [NASA-CASE-LAR-13009-1] c 37 N85-29285
 High effectiveness contour matching contact heat exchanger
 [NASA-CASE-MSC-20840-1] c 34 N87-18779

THERMAL FATIGUE

- Automatic fatigue test temperature programmer Patent
 [NASA-CASE-XLA-02059] c 33 N71-24276

THERMAL INSULATION

- Piping arrangement through a double chamber structure
 [NASA-CASE-XNP-08882] c 15 N69-39935
 Insulating structure Patent
 [NASA-CASE-XMF-00341] c 15 N70-33323
 Unfired-ceramic flame-resistant insulation and method of making the same Patent
 [NASA-CASE-XMF-01030] c 18 N70-41583
 Techniques for insulating cryogenic fuel containers Patent
 [NASA-CASE-XLA-01967] c 31 N70-42015

- Lightweight refractory insulation and method of preparing the same Patent
 [NASA-CASE-XMF-05279] c 18 N71-16124
 Heat protection apparatus Patent
 [NASA-CASE-XLA-00892] c 33 N71-17897
 Cryogenic insulation system Patent
 [NASA-CASE-XLE-04222] c 23 N71-22881
 Insulation system Patent
 [NASA-CASE-XLE-02647] c 18 N71-23658
 Filament wound container Patent
 [NASA-CASE-XLE-03803] c 15 N71-23816
 Panelized high performance multilayer insulation Patent
 [NASA-CASE-MFS-14023] c 33 N71-25351
 Isothermal cover with thermal reservoirs Patent
 [NASA-CASE-MFS-20355] c 33 N71-25353
 Fabric for micrometeoroid protection garment Patent
 [NASA-CASE-MSC-12109] c 18 N71-26285
 Thickness measuring and injection device Patent
 [NASA-CASE-MFS-20261] c 14 N71-27005
 Cryogenic thermal insulation Patent
 [NASA-CASE-XMF-05046] c 33 N71-28892
 Intumescent composition, foamed product prepared therewith, and process for making same
 [NASA-CASE-ARC-10304-1] c 18 N73-26572
 Thermal control system for a spacecraft modular housing
 [NASA-CASE-GSC-11018-1] c 31 N73-30829
 Heater-mixer for stored fluids
 [NASA-CASE-ARC-10442-1] c 35 N74-15093
 Intumescent composition, foamed product prepared therewith and process for making same
 [NASA-CASE-ARC-10304-2] c 27 N74-27037
 High current electrical lead --- for thermionic converters
 [NASA-CASE-LEW-10950-1] c 33 N74-27683
 Structural heat pipe --- for spacecraft wall thermal insulation system
 [NASA-CASE-GSC-11619-1] c 34 N75-12222
 Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
 [NASA-CASE-MSC-14182-1] c 27 N76-14264
 Auger attachment method for insulation --- of spacecraft
 [NASA-CASE-MSC-12615-1] c 37 N76-19437
 Flexible pile thermal barrier insulator
 [NASA-CASE-MSC-19568-1] c 34 N78-25350
 Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
 [NASA-CASE-MSC-12619-2] c 27 N79-12221
 Fibrous refractory composite insulation --- shielding reusable spacecraft
 [NASA-CASE-ARC-11169-1] c 24 N79-24062
 Thermal insulation protection means
 [NASA-CASE-MSC-12737-1] c 24 N79-25142
 Installing fiber insulation
 [NASA-CASE-MSC-16973-1] c 37 N81-14317
 Process for the preparation of polycarbonylphosphazenes --- thermal insulation
 [NASA-CASE-ARC-11176-2] c 27 N81-27271
 Carbonylphosphazenes and their polymers --- thermal insulation
 [NASA-CASE-ARC-11176-1] c 27 N82-18389
 A method and technique for installing light-weight fragile, high-temperature fiber insulation
 [NASA-CASE-MSC-18934-3] c 24 N82-26387
 Thermal garment
 [NASA-CASE-XMS-03694-1] c 54 N82-29002
 Method and technique for installing light-weight, fragile, high-temperature fiber insulation
 [NASA-CASE-MSC-16934-3] c 24 N84-16262
 Insulation bonding test system
 [NASA-CASE-MFS-25862-1] c 27 N85-20126
 Cryogenic insulation strength and bond tester
 [NASA-CASE-MFS-25910-1] c 39 N86-20841
 Ceramic-ceramic shell tile thermal protection system and method thereof
 [NASA-CASE-ARC-11641-1] c 24 N87-14442

THERMAL PLASMAS

- Continuous plasma light source
 [NASA-CASE-XNP-04167-2] c 25 N72-24753

THERMAL PROTECTION

- Thermo-protective device for balances Patent
 [NASA-CASE-XAC-00648] c 14 N70-40400
 Ablation structures Patent
 [NASA-CASE-XMS-01816] c 33 N71-15623
 Spacecraft radiator cover Patent
 [NASA-CASE-MSC-12049] c 31 N71-16080
 Foamed in place ceramic refractory insulating material Patent
 [NASA-CASE-XGS-02435] c 18 N71-22998
 Ceramic insulation for radiant heating environments and method of preparing the same Patent
 [NASA-CASE-MSC-14253] c 33 N71-24858
 Solid state thermal control polymer coating Patent
 [NASA-CASE-XLA-01745] c 33 N71-28903

- Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
- Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
- Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
- Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
- Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Silicon-slurry/aluminate coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
- Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N86-32740
- THERMAL RADIATION**
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
- Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
- Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
- Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
- Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- THERMAL REACTORS**
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
- THERMAL RESISTANCE**
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
- Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
- Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- THERMAL SHOCK**
Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
- Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- THERMAL SIMULATION**
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
- THERMAL STABILITY**
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
- Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMS-02526-1] c 27 N79-21190
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- THERMAL STRESSES**
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
- Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
- Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
- Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
- Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
- Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N86-32740
- THERMIONIC CATHODES**
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
- THERMIONIC CONVERTERS**
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
- Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
- Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
- High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
- High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- THERMIONIC DIODES**
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
- Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
- Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
- THERMIONIC EMITTERS**
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
- THERMIONIC POWER GENERATION**
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- THERMISTORS**
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
- Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
- THERMOCHEMISTRY**
Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- THERMOCHROMATIC MATERIALS**
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
- THERMOCOUPLE PYROMETERS**
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- THERMOCOUPLES**
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
- Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
- Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
- Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
- Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
- Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417

THERMODYNAMIC CYCLES

- Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N87-29799
- THERMODYNAMIC CYCLES**
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- THERMODYNAMIC EFFICIENCY**
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- THERMODYNAMIC PROPERTIES**
- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
- Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
- Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- THERMOELECTRIC GENERATORS**
- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
- Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
- THERMOELECTRIC MATERIALS**
- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- THERMOELECTRIC POWER GENERATION**
- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612
- THERMOELECTRICITY**
- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
- THERMOLUMINESCENCE**
- Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106
- Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

THERMOMAGNETIC EFFECTS

- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- Thermomagnetic recording and magneto-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

THERMOMETERS

- Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

THERMOPHYSICAL PROPERTIES

- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

THERMOPILES

- Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
- Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
- Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

THERMOPLASTIC FILMS

- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

THERMOPLASTIC RESINS

- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
- Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- Phenoxyl resins containing pendant ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
- THERMOPLASTICITY**
- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
- Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124

THERMOREGULATION

- Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
- THERMOSETTING RESINS**
- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N86-32570
- Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N87-25473
- THERMOSTATS**
- Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
- Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- THICK FILMS**
- Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- THICKNESS**
- Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
- Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- THIN FILMS**
- Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
- Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
- Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
- Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
- Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199

- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
- Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
- Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
- Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
- Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
- Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
- Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
- System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
- Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
- Method of producing high T superconducting Nbn films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401
- High intensity casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N87-15327
- Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
- THIN PLATES**
- Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
- Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
- THIN WALLED SHELLS**
- Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
- THIN WALLS**
- Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
- Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
- Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
- Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
- Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
- Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
- THORIUM FLUORIDES**
- Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
- THORIUM OXIDES**
- Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
- THREADS**
- Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
- Threadless fastener apparatus Patent
[NASA-CASE-FR-05302] c 15 N71-23254
- THREE AXIS STABILIZATION**
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396
- THREE DIMENSIONAL MOTION**
- Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
- THRESHOLD GATES**
- Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
- THRESHOLD LOGIC**
- SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLE-07497] c 09 N71-12514
- THROATS**
- Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
- THRUST AUGMENTATION**
- Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
- Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
- Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
- Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
- Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- THRUST BEARINGS**
- Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
- THRUST CHAMBER PRESSURE**
- Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
- THRUST CHAMBERS**
- Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
- Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
- Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
- Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
- Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
- Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
- Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
- Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- THRUST CONTROL**
- Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
- Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
- Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
- Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- THRUST LOADS**
- Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- THRUST MEASUREMENT**
- Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
- Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
- Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
- Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
- THRUST REVERSAL**
- Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- THRUST VECTOR CONTROL**
- Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
- Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
- Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
- Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
- System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
- THRUST-WEIGHT RATIO**
- Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
- THYRISTORS**
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- TILES**
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
- Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
- Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N87-14442
- TILT WING AIRCRAFT**
- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- TIME CONSTANT**
- Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- TIME DEPENDENCE**
- Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
- TIME DISCRIMINATION**
- Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- TIME DIVISION MULTIPLEXING**
- Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
- Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
- Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
- Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

- Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
- High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270

TIME FUNCTIONS

- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659

TIME LAG

- Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
- Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
- Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
- Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403

TIME MEASUREMENT

- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

TIME MEASURING INSTRUMENTS

- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
- Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357

TIME OF FLIGHT SPECTROMETERS

- Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041

TIME SERIES ANALYSIS

- Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
- Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

TIME SHARING

- Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507

TIME SIGNALS

- System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

TIMING DEVICES

- Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411

TIPS

- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

TIRES

- Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
- Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

TISSUES (BIOLOGY)

- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694

Coupling apparatus for ultrasonic medical diagnostic system

- [NASA-CASE-NPO-13935-1] c 52 N79-14751
- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

TITANATES

- Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532

TITANIUM

- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

TITANIUM ALLOYS

- Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944

TITANIUM NITRIDES

- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

TITANIUM OXIDES

- Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

TOLERANCES (MECHANICS)

- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951

TOLUENE

- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

TOMOGRAPHY

- System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

TOOLS

- Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
- Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
- Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
- Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
- Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649

TOOTH DISEASES

- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

TOPOGRAPHY

- Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499

TORCHES

- Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
- Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N87-25587

TOROIDAL SHELLS

- Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

TOROIDS

- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

TORQUE

- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
- Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
- Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N87-23630

TORQUE MOTORS

- Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
- Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

TORQUEMETERS

- Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

TORSO

- Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618

TOUCH

- Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
- Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
- Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

TOUGHNESS

- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

TOWERS

- Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343

TOXICITY

- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HON-10274-1] c 27 N82-29451

TOXICITY AND SAFETY HAZARD

Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

TOXICOLOGY

Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

TRACE CONTAMINANTS

Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701

Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773

Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245

Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

TRACE ELEMENTS

Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245

Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323

Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

TRACKED VEHICLES

Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TRACKING (POSITION)

Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736

Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140

Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526

TRACKING FILTERS

Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543

Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238

TRACKING RADAR

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437

Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TRACKING STATIONS

Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175

Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

TRAFFIC CONTROL

Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888

TRAILERS

Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRAILING EDGES

Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

TRAILING-EDGE FLAPS

Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

TRAINING DEVICES

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

TRAINING SIMULATORS

Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494

Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

TRAJECTORY ANALYSIS

Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990

TRAJECTORY CONTROL

Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931

Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691

Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873

TRANSFORMERS

Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541

Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428

Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586

Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988

Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999

Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452

Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222

Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200

Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437

Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379

Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930

LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732

Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329

Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369

Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552

Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703

Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019

Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693

Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N86-20087

Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982

TRANSFER FUNCTIONS

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

TRANSFORMERS

Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334

Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800

Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893

Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001

Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053

Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948

Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196

Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262

Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928

Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295

Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257

System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330

Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220

Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422

High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

TRANSIENT HEATING

Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373

TRANSIENT LOADS

Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874

TRANSISTOR AMPLIFIERS

Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

TRANSISTOR CIRCUITS

Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317

Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655

Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156

Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862

Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

Temperature compensated current source
[NASA-CASE-MS-11235] c 33 N78-17294

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

TRANSISTORS

Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543

Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799

Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112

Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MS-14240-1] c 33 N75-14957

Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257

Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

TRANSITION FLOW

Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796

TRANSITION TEMPERATURE

Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261

Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

TRANSLATIONAL MOTION

Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815

Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982

Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462

TRANSLATORS

Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

TRANSLUCENCE

Light transmitting window assembly
[NASA-CASE-MS-18417-1] c 74 N85-29750

TRANSMISSION CIRCUITS

Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

TRANSMISSION EFFICIENCY

Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870

Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

TRANSMISSION LINES

Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191

Phase modulator Patent
[NASA-CASE-MS-13201-1] c 07 N71-28429

Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198

Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

Phase protection system for ac power lines
[NASA-CASE-MS-17832-1] c 33 N74-14956

System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

System for automatically switching transformer coupled lines
[NASA-CASE-MS-16697-1] c 33 N79-28415

TRANSMISSIONS (MACHINE ELEMENTS)

Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087

Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084

TRANSMISSIVITY

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

TRANSMITTANCE

Light transmitting window assembly
[NASA-CASE-MS-18417-1] c 74 N85-29750

TRANSMITTER RECEIVERS

Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136

Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

Digital communication system
[NASA-CASE-MS-13912-1] c 32 N74-30524

TRANSMITTERS

Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840

Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118

Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Digital transmitter for data bus communications system
[NASA-CASE-MS-14558-1] c 32 N75-21486

Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725

Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

TRANSONIC SPEED

Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497

TRANSONIC WIND TUNNELS

Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183

Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

TRANSPARENCE

Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190

Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

Light transmitting window assembly
[NASA-CASE-MS-18417-1] c 74 N85-29750

Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039

Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

TRANSPARATION

Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191

TRANSPONDERS

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391

Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

TRANSPORTATION

Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

TRANSVERSE ACCELERATION

Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

TRAPS

Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652

TRAVELING WAVE AMPLIFIERS

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088

Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251

Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

TRAVELING WAVE MASERS

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550

High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831

Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410

TRAVELING WAVE TUBES

Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554

Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339

Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742

TRAVELING WAVES

Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521

TREADMILLS

Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

TREADS

Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TRIGGER CIRCUITS

Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913

Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468

SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171

Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

TRIGONOMETRY

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

TRIMERS

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244

Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276

Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

TRIODES

Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

TRITIUM

- Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

TROPICPAUSE

- CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

TRUCKS

- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRUSSES

- Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Structural members, method and apparatus
[NASA-CASE-MS-C-16217-1] c 31 N81-27323
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Shuttle-launch triangular space station
[NASA-CASE-MS-C-20676-1] c 18 N86-24729
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N87-15260
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
Collect lock joint for space station truss
[NASA-CASE-MS-C-21207-1] c 37 N87-25576
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713

TUBE GRIDS

- Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444

TUBE HEAT EXCHANGERS

- Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

TUBES

- Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

TUMBLING MOTION

- Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

TUMORS

- Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

TUNABLE LASERS

- Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N87-18625
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567

TUNGSTEN

- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

- Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

TUNGSTEN ALLOYS

- Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

TUNING

- Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1CU] c 76 N87-15883
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

TUNNEL DIODES

- Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399

TUNNELING (EXCAVATION)

- Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

TUNNELS

- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

TURBINE BLADES

- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

TURBINE ENGINES

- High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

TURBINE PUMPS

- Pulsed energy power system Patent
[NASA-CASE-MS-C-13112] c 03 N71-11057

- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188

TURBINE WHEELS

- Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

TURBINES

- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282

TURBOCOMPRESSORS

- Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

TURBOFAN ENGINES

- Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

TURBOFANS

- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

TURBOGENERATORS

- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

TURBOJET ENGINE CONTROL

- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

TURBOJET ENGINES

- Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

TURBOMACHINE BLADES

- Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

TURBOMACHINERY

- Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

TURBOSHAFTS

- Optical torqueometer Patent
[NASA-CASE-XLE-00503] c 14 N70-34818

- High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
- TURBULENCE METERS**
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- TURBULENT BOUNDARY LAYER**
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N87-18535
- TURBULENT FLOW**
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
- TURNSTILE ANTENNAS**
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
- TURRET**
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
- TWISTING**
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
- TWO BODY PROBLEM**
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
- TWO DIMENSIONAL BODIES**
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
- TWO PHASE FLOW**
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
- TYPEWRITERS**
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

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- U BENDS**
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
- ULCERS**
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

- ULLAGE**
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
- ULTRAHIGH FREQUENCIES**
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
- ULTRAHIGH VACUUM**
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- ULTRAPURE METALS**
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
- ULTRASONIC AGITATION**
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
- ULTRASONIC CLEANING**
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- ULTRASONIC FLAW DETECTION**
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- ULTRASONIC RADIATION**
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
- ULTRASONIC SCANNERS**
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885
- ULTRASONIC TESTS**
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- ULTRASONIC WAVE TRANSDUCERS**
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

- Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1CU] c 35 N86-32700
- ULTRASONIC WELDING**
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- ULTRASONICS**
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1CU] c 35 N86-32700
- ULTRAVIOLET FILTERS**
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
- ULTRAVIOLET LASERS**
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- ULTRAVIOLET RADIATION**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Vita-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- ULTRAVIOLET REFLECTION**
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- ULTRAVIOLET SPECTRA**
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- ULTRAVIOLET SPECTROMETERS**
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- UMBILICAL CONNECTORS**
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

V

UMBILICAL TOWERS

- Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199

UNDERWATER ENGINEERING

- Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

UNDERWATER TESTS

- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125

UNIFORM FLOW

- Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969

UNIONS (CONNECTORS)

- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713

UNLOADING

- Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

UNMANNED SPACECRAFT

- Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

UNSATURATION (CHEMISTRY)

- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

UP-CONVERTERS

- Method and apparatus for quadrupole-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

UPPER ATMOSPHERE

- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

URANIUM 235

- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

UREAS

- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

URETHANES

- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

URINALYSIS

- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

URINATION

- Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

URINE

- Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

UROLOGY

- Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711

UTERUS

- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

V GROOVES

- Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

VACANCIES (CRYSTAL DEFECTS)

- Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

VACUUM

- Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

VACUUM APPARATUS

- Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

VACUUM CHAMBERS

- High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634

- Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
An ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N87-25829

VACUUM DEPOSITION

- A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

VACUUM EFFECTS

- High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

VACUUM FURNACES

- Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900

VACUUM GAGES

- Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092

VACUUM MELTING

- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215

VACUUM PUMPS

- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433

VACUUM SPECTROSCOPY

- Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

VACUUM SYSTEMS

- Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

VACUUM TUBES

- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

VALUE

- High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

VALVES

- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706

Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191

Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451

Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483

Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065

Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136

Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510

Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403

VANES

Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420

Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639

Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

VAPOR DEPOSITION

A method for the deposition of beta-silicon carbide by isoeptitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482

Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015

Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156

Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259

Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487

Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270

System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161

Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192

Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253

Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005

Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

VAPOR PHASES

Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027

Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199

Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

VAPOR PRESSURE

Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247

Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023

Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

VAPOR TRAPS

Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

VAPORIZERS

Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104

Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

VAPORIZING

Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372

Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025

VARACTOR DIODE CIRCUITS

Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429

VARACTOR DIODES

Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324

Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414

Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

VARIABILITY

Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

VARIABLE CYCLE ENGINES

Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118

Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384

Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

VARIABLE GEOMETRY STRUCTURES

Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286

Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

VARIABLE PITCH PROPELLERS

Dual output variable pitch turboprop actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025

Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

VARIABLE SWEEP WINGS

Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255

Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266

Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178

Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011

Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041

Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005

VARIABLE THRUST

Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802

Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367

Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

VARIATIONS

Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

VECTOR ANALYSIS

Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439

VECTOR CURRENTS

Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

VECTOCARDIOGRAPHY

Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

VEGETATION GROWTH

Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503

Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

VEHICLE WHEELS

Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611

Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125

Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070

Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477

Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443

Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

VEHICLES

Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

VEHICULAR TRACKS

Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

VELOCITY

Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

VELOCITY COUPLING

Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

VELOCITY MEASUREMENT

Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332

Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969

Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212

Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410

Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415

Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310

Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436

Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396

Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359

Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036

Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695

Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697

VELOCITY MODULATION

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777

Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627

VENTILATION

Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679

Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

VENTILATORS

Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

VENTING

Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247

Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646

Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234

Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758

VENTURI TUBES

Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

VENUS (PLANET)

Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

VERTICAL FLIGHT

Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

VERTICAL LANDING

Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

VERTICAL ORIENTATION

Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

VERTICAL TAKEOFF AIRCRAFT

Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570

VERY HIGH FREQUENCIES

VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

VERY LARGE SCALE INTEGRATION

Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Systolic VLSI array for implementing the Kalman filter Algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N87-27926

VERY LONG BASE INTERFEROMETRY

System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

VESTS

Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493

VIBRATION

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

VIBRATION DAMPING

Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790

VIBRATION EFFECTS

Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

VIBRATION ISOLATORS

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026

Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

VIBRATION MEASUREMENT

Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

VIBRATION METERS

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

VIBRATION MODE

Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

VIBRATION SIMULATORS

Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416

VIBRATION TESTS

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

VIBRATIONAL SPECTRA

Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006

VIDEO COMMUNICATION

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

VIDEO DATA

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224

VIDEO EQUIPMENT

Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1SB] c 54 N86-22114
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N86-23283

VIDEO SIGNALS

Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

VIDICONS

Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Material handling device Patent
[NASA-CASE-NPO-09770-3] c 11 N71-27036

VIEWING

Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

VINYL COPOLYMERS

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

VINYL POLYMERS

Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

VINYLDIENE

Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

VIROSES

Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

VISCOELASTICITY

Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

VISCOMETERS

Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

VISCOSITY

Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456

VISCOUS DAMPING

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

VISIBILITY

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673

VISIBLE SPECTRUM

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISION

Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

VISORS

VISORS

Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834

VISUAL ACUITY

Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

VISUAL CONTROL

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISUAL FIELDS

Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

VISUAL OBSERVATION

Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

VISUAL PERCEPTION

Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

VISUAL STIMULI

Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114

VITERBI DECODERS

Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

VOICE COMMUNICATION

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

VOICE DATA PROCESSING

Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Method and apparatus for operating on compressed PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

VOLATILITY

Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607

VOLT-AMPERE CHARACTERISTICS

Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

VOLTAGE AMPLIFIERS

Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Arc lamp power supply
[NASA-CASE-LAR-13202-1] c 33 N86-32626

VOLTAGE CONTROLLED OSCILLATORS

Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

VOLTAGE CONVERTERS (DC TO DC)

Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

VOLTAGE GENERATORS

Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

VOLTAGE REGULATORS

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

VOLT METERS

Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521

VOLUMETRIC ANALYSIS

Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

VOMITING

Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

VORTEX BREAKDOWN

Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001

VORTEX FLAPS

Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016

VORTEX GENERATORS

Multitube vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

VORTICES

Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

VORTICITY

Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N87-23587

VULCANIZING

Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

W

WAFERS

Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
High voltage V-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879

WAKES

Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

WALKING

Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

WALKING MACHINES

Space spider crane
[NASA-CASE-LAR-13411-1SB] c 18 N87-15259

WALL TEMPERATURE

Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417

Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222

Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

WALLS

Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411

Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

WARNING SYSTEMS

Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893

Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375

Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244

Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643

System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483

Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205

Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375

Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

WASHING

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

WASTE DISPOSAL

Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192

An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840

Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102

Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725

Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136

Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611

Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804

Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495

WASTE ENERGY UTILIZATION

Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

WASTE HEAT

Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

WASTE UTILIZATION

Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

WASTE WATER

Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

WATER

High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446

Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384

Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470

WATER FLOW

Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779

Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

WATER INJECTION

Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

WATER LANDING

Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009

Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

WATER MANAGEMENT

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718

Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

WATER POLLUTION

Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086

Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413

Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

WATER QUALITY

Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285

Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

WATER RECLAMATION

Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207

Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

WATER RESOURCES

Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

WATER TEMPERATURE

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

WATER TREATMENT

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718

Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087

Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784

Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

WATER WAVES

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

WATERPROOFING

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

WATERWAVE ENERGY CONVERSION

Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

WAVE AMPLIFICATION

Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

WAVE DIFFRACTION

Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140

WAVE FRONT RECONSTRUCTION

Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

WAVE GENERATION

Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287

Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675

Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365

Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774

Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

WAVE INTERACTION

Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

WAVE PROPAGATION

Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

WAVE REFLECTION

Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

WAVE RESISTANCE

Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

WAVE SCATTERING

- Device and method for determining X ray reflection efficiency of optical surfaces c 23 N73-13662
 [NASA-CASE-MFS-20243]
 Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current [NASA-CASE-NPO-15704-1] c 32 N85-34327

WAVEFORMS

- Variable frequency magnetic multivibrator Patent [NASA-CASE-XGS-00131] c 09 N70-38995
 Single or joint amplitude distribution analyzer Patent [NASA-CASE-XNP-01383] c 09 N71-10659
 Peak polarity selector Patent [NASA-CASE-FRC-10010] c 10 N71-24862
 Family of frequency to amplitude converters [NASA-CASE-MS-12395] c 09 N72-25257
 Apparatus for statistical time-series analysis of electrical signals [NASA-CASE-MS-12428-1] c 10 N73-25240
 Low distortion receiver for bi-level baseband PCM waveforms [NASA-CASE-MS-14557-1] c 32 N76-16249
 Speech analyzer [NASA-CASE-GSC-11898-1] c 32 N77-30309
 Lightning current waveform measuring system [NASA-CASE-KSC-11018-1] c 33 N79-10337

WAVEGUIDE ANTENNAS

- Virtual wall slot circularly polarized planar array antenna [NASA-CASE-NPO-10301] c 07 N72-11148

WAVEGUIDE FILTERS

- High power microwave power divider Patent [NASA-CASE-NPO-11031] c 07 N71-33606

WAVEGUIDE WINDOWS

- Broadband microwave waveguide window Patent [NASA-CASE-XNP-08880] c 09 N71-24808

WAVEGUIDES

- Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent [NASA-CASE-XNP-03134] c 07 N71-10676
 Folded traveling wave maser structure Patent [NASA-CASE-XNP-05219] c 16 N71-15550
 Quasi-optical microwave component Patent [NASA-CASE-ERC-10011] c 07 N71-29065
 Waveguide mixer [NASA-CASE-ERC-10179] c 07 N72-20141
 Active microwave iris and windows [NASA-CASE-LAR-10513-1] c 07 N72-25170
 Thin film microwave iris [NASA-CASE-LAR-10511-1] c 09 N72-29172
 Resonant waveguide stark cell --- using microwave spectrometers [NASA-CASE-LAR-11352-1] c 33 N75-26245
 Diffused waveguiding capillary tube with distributed feedback for a gas laser [NASA-CASE-NPO-13544-1] c 36 N76-18428
 Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures [NASA-CASE-NPO-14254-1] c 36 N80-18372
 Support assembly for cryogenically coolable low-noise choke waveguide [NASA-CASE-NPO-14253-1] c 32 N80-32605
 Coaxial phased array antenna [NASA-CASE-MS-16800-1] c 32 N81-14187
 Coupled cavity traveling wave tube with velocity tapering [NASA-CASE-LEW-12296-1] c 33 N82-26568
 Waveguide cooling system [NASA-CASE-NPO-15401-1] c 32 N83-27085

WAVELENGTHS

- Method and apparatus for wavelength tuning of liquid lasers [NASA-CASE-ERC-10187] c 16 N69-31343
 Instrument for the quantitative measurement of radiation at multiple wave lengths Patent [NASA-CASE-XLE-00011] c 14 N70-41946
 Optical systems having spatially invariant outputs [NASA-CASE-ERC-10248] c 14 N72-17323
 Two color horizon sensor [NASA-CASE-ERC-10174] c 14 N72-25409
 Monitoring deposition of films [NASA-CASE-MFS-20675] c 26 N73-26751
 Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields [NASA-CASE-ARC-10637-1] c 35 N75-16783
 Diatomic infrared gasdynamic laser --- for producing different wavelengths [NASA-CASE-ARC-10370-1] c 36 N75-31426
 Fluorescent radiation converter [NASA-CASE-GSC-12528-1] c 74 N81-24900
 Acoustic levitation methods and apparatus [NASA-CASE-NPO-15562-1] c 71 N82-27086
 Extended range X-ray telescope [NASA-CASE-MFS-25282-1] c 34 N83-19015

- Dual laser optical system and method for studying fluid flow [NASA-CASE-MFS-25315-1] c 36 N83-29680
 Acoustic suspension system [NASA-CASE-NPO-15435-1] c 71 N83-36846

WAVES

- Natural turbulence electrical power generator --- using wave action or random motion [NASA-CASE-LAR-11551-1] c 44 N80-29834

WEAR

- Refractory coatings [NASA-CASE-LEW-13169-2] c 26 N82-30371

WEAR INHIBITORS

- Composite seal for turbomachinery [NASA-CASE-LEW-12131-3] c 37 N82-19540

WEATHERPROOFING

- Weatherproof helix antenna Patent [NASA-CASE-XKS-08485] c 07 N71-19493

WEBS (SHEETS)

- Method and apparatus for measuring web material wound on a reel [NASA-CASE-GSC-11902-1] c 38 N77-17495
 Instrumentation for sensing moisture content of material using a transient thermal pulse [NASA-CASE-NPO-15494-1] c 35 N82-25484
 Instrumentation for sensing moisture content of material using a transient thermal pulse [NAS 1.71:NPO-15494-2] c 35 N85-34373

WEBS (SUPPORTS)

- Integrated gas turbine engine-nacelle [NASA-CASE-LEW-12389-2] c 07 N78-18066
 Integrated gas turbine engine-nacelle [NASA-CASE-LEW-12389-3] c 07 N79-14096

WEDGES

- Two dimensional wedge/translating shroud nozzle [NASA-CASE-LAR-11919-1] c 07 N78-27121

WEIGHT (MASS)

- Suspended mass impact damper Patent [NASA-CASE-LAR-10193-1] c 15 N71-27146
 System for indicating fuel-efficient aircraft altitude [NASA-CASE-NPO-15351-2] c 06 N84-34443

WEIGHT INDICATORS

- Device for monitoring a change in mass in varying gravimetric environments [NASA-CASE-MFS-21556-1] c 35 N74-26945
 Miniature remote dead weight calibrator [NASA-CASE-LAR-13564-1] c 35 N87-25558

WEIGHT MEASUREMENT

- Automatic force measuring system Patent [NASA-CASE-XLA-02605] c 14 N71-10773
 Device for monitoring a change in mass in varying gravimetric environments [NASA-CASE-MFS-21556-1] c 35 N74-26945
 Portable pallet weighing apparatus [NASA-CASE-GSC-12789-1] c 35 N85-20294

WEIGHTLESSNESS

- Apparatus for transferring cryogenic liquids Patent [NASA-CASE-XLE-00345] c 15 N70-38020
 Liquid-gas separation system Patent [NASA-CASE-XMS-01624] c 15 N70-40062
 Measuring device Patent [NASA-CASE-XMS-01546] c 14 N70-40233
 Zero gravity starting means for liquid propellant motors Patent [NASA-CASE-XNP-01390] c 28 N70-41275
 Liquid-gas separator for zero gravity environment Patent [NASA-CASE-XMS-01492] c 05 N70-41297
 Recovery of potable water from human wastes in below-G conditions Patent [NASA-CASE-XLA-03213] c 05 N71-11207
 Zero gravity separator Patent [NASA-CASE-XLE-00586] c 15 N71-15968
 Reduced gravity simulator Patent [NASA-CASE-XLA-01787] c 11 N71-16028
 Method and apparatus of simulating zero gravity conditions Patent [NASA-CASE-MFS-12750] c 27 N71-16223
 Quick disconnect latch and handle combination Patent [NASA-CASE-MFS-11132] c 15 N71-17649
 Spherical tank gauge Patent [NASA-CASE-XMS-06236] c 14 N71-21007
 Zero gravity apparatus Patent [NASA-CASE-XMF-06515] c 14 N71-23227
 Skeletal stressing method and apparatus Patent [NASA-CASE-ARC-10100-1] c 05 N71-24738
 Material handling device Patent [NASA-CASE-XNP-09770-3] c 11 N71-27036
 Method of making foamed materials in zero gravity [NASA-CASE-XMF-09902] c 15 N72-11387
 Remote control manipulator for zero gravity environment [NASA-CASE-MFS-14405] c 15 N72-28495
 Zero gravity liquid mixer [NASA-CASE-LAR-10195-1] c 15 N73-19458

- Zero gravity liquid transfer screen [NASA-CASE-KSC-10626] c 14 N73-27378
 Reduced gravity fecal collector seat and urinal [NASA-CASE-MFS-22102-1] c 54 N74-20725
 Apparatus for conducting flow electrophoresis in the substantial absence of gravity [NASA-CASE-MFS-21394-1] c 34 N74-27744
 Rotary plant growth accelerating apparatus --- weightlessness [NASA-CASE-ARC-10722-1] c 51 N75-25503
 Fluid control apparatus and method [NASA-CASE-LAR-11110-1] c 34 N75-26282
 Method for manufacturing mirrors in zero gravity environment [NASA-CASE-MS-12611-1] c 12 N76-15189
 Fluid mass sensor for a zero gravity environment [NASA-CASE-MS-14653-1] c 35 N77-19385
 Method of crystallization --- in gravity-free environments [NASA-CASE-MFS-23001-1] c 76 N77-32919
 Passive propellant system [NASA-CASE-MFS-23642-1] c 20 N80-10278
 Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets [NASA-CASE-NPO-14596-1] c 31 N81-33319
 Sample levitation and melt in microgravity [NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

WEIGHTLESSNESS SIMULATION

- Reduced gravity liquid configuration simulator [NASA-CASE-XLE-02624] c 12 N69-39988
 Mass measuring system Patent [NASA-CASE-XMS-03371] c 05 N70-42000
 Harness assembly Patent [NASA-CASE-MFS-14671] c 05 N71-12341
 Whole body measurement systems --- for weightlessness simulation [NASA-CASE-MS-13972-1] c 52 N74-10975
 Weightlessness simulation system and process [NASA-CASE-ARC-11646-1] c 14 N87-25344

WELD STRENGTH

- Grain refinement control in TIG arc welding [NASA-CASE-MS-19095-1] c 37 N75-19683

WELD TESTS

- Determination of spot weld quality Patent [NASA-CASE-XNP-02588] c 15 N71-18613
 Method and apparatus for swept-frequency impedance measurements of welds [NASA-CASE-ARC-10176-1] c 15 N72-21464

WELDED JOINTS

- Apparatus for welding blades to rotors [NASA-CASE-LEW-10533-2] c 37 N74-11300
 Ultrasonic scanning system for in-place inspection of brazed tube joints [NASA-CASE-MFS-20767-1] c 38 N74-15130
 Device for measuring the ferrite content in an austenitic stainless-steel weld [NASA-CASE-MFS-22907-1] c 26 N76-18257
 Capillary flow weld-bonding [NASA-CASE-LAR-11726-1] c 37 N76-27568
 Automated weld torch guidance control system [NASA-CASE-MFS-25807-2] c 37 N86-21850

WELDED STRUCTURES

- Grain refinement control in TIG arc welding [NASA-CASE-MS-19095-1] c 37 N75-19683
 Flanged major modular assembly jig [NASA-CASE-MS-19372-1] c 39 N76-31562
 Weld-bonded titanium structures [NASA-CASE-LAR-11549-1] c 37 N77-11397
 Bimetallic junctions [NASA-CASE-LEW-11573-1] c 26 N77-28265

WELDING

- Segmented back-up bar Patent [NASA-CASE-XMF-00640] c 15 N70-39924
 Flexible back-up bar Patent [NASA-CASE-XMF-00722] c 15 N70-40204
 Apparatus for welding sheet material --- butt joints [NASA-CASE-XMS-01330] c 37 N75-27376
 Weld-bonded titanium structures [NASA-CASE-LAR-11549-1] c 37 N77-11397
 Method and apparatus for holding two separate metal pieces together for welding [NASA-CASE-GSC-12318-1] c 37 N80-23655
 Automatic weld torch guidance control system [NASA-CASE-MFS-25807] c 37 N83-20154
 Joining lead wires to thin platinum alloy films [NASA-CASE-LEW-13934-1] c 35 N83-35338
 Method of repairing hidden leaks in tubes [NASA-CASE-MFS-19796-1] c 37 N86-32736

WELDING MACHINES

- Apparatus for welding torch angle and seam tracking control Patent [NASA-CASE-XMF-03287] c 15 N71-15607
 Automatic welding speed controller Patent [NASA-CASE-XMF-01730] c 15 N71-23050
 Electric welding torch Patent [NASA-CASE-XMF-02330] c 15 N71-23798

- Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- A welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N87-25575
- WET CELLS**
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
- WETTING**
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
- WHEATSTONE BRIDGES**
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
- Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
- Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- WHEELS**
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
- WHISKER COMPOSITES**
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
- WHISKERS (CRYSTALS)**
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
- WICKS**
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- WIDE ANGLE LENSES**
Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857
- WIDEBAND COMMUNICATION**
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
- WINCHES**
Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
- WIND DIRECTION**
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- WIND EFFECTS**
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
- Aircraft liftemeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- WIND MEASUREMENT**
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
- Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
- Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- WIND PROFILES**
Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281
- WIND SHEAR**
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
- Aircraft liftemeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- WIND TUNNEL APPARATUS**
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
- Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
- Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
- Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- WIND TUNNEL CALIBRATION**
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
- WIND TUNNEL DRIVES**
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
- WIND TUNNEL MODELS**
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
- Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
- Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
- Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
- Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- WIND TUNNEL NOZZLES**
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
- Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
- WIND TUNNEL TESTS**
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
- Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
- WIND TUNNEL WALLS**
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- WIND TUNNELS**
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
- Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
- Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
- WIND TURBINES**
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- WIND VELOCITY**
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- Aircraft liftemeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- WIND VELOCITY MEASUREMENT**
Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281
- Aircraft liftemeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- WINDING**
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
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- X-ray position detector
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- Low intensity X-ray and gamma-ray imaging device --- fiber optics
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- Real-time 3-D X-ray and gamma-ray viewer
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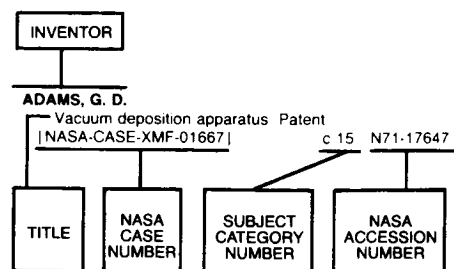
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[NASA-CASE-XNP-07481] c 25 N69-21929
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[NASA-CASE-NPO-14130-1] c 34 N79-20335
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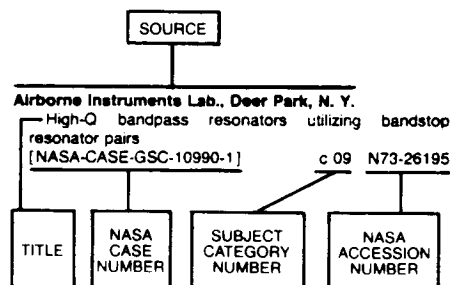
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[NASA-CASE-MFS-15162] c 14 N72-32452
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

Boeing Co., Pasadena, Tex.
Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Boeing Co., Seattle, Wash.
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Method of inhibiting stress corrosion cracks in titanium alloys
Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Strain sensor for high temperatures
Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Plasma cleaning device
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392

Boeing Commercial Airplane Co., Seattle, Wash.
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

Borden, Inc., New York, N.Y.
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

Borg-Warner Corp., Chicago, Ill.
Data transfer system
Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

Brown and Root-Northrop, Houston, Tex.
Anti-fog composition
[NASA-CASE-MSC-13530-2] c 23 N75-14834

Brown Engineering Co., Inc., Huntsville, Ala.
Air bearing
Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Collapsible nozzle extension for rocket engines
Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Inspection gage for boss
Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Method of recording a gas flow pattern
Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems
Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Vapor liquid separator
Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Thruster maintenance system
Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708

California Computer Products, Inc., Anaheim.

Temperature regulation circuit
Patent
[NASA-CASE-XNP-02792] c 14 N71-28958

California Inst. of Tech., Pasadena.
Attitude control for spacecraft
Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Interferometer
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Electronic system for high power load control
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Radiative cooler
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Spectrophotometer stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Programmable scan/read circuitry for charge coupled device imaging detectors
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Laser activated MPTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

California Univ., Berkeley.
Adjustable mount for a trihedral mirror
Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169

California Univ., Los Angeles.
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Continuous plasma laser
[NASA-CASE-XNP-04167-3] c 36 N77-19416

Catholic Univ. of America, Washington, D.C.
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109

Chance Vought Corp., Dallas, Tex.
Coupling for linear shaped charge
Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Spin forming tubular elbows
Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Single action separation mechanism
Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

Christopher Newport Coll., Newport News, Va.
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

Chrysler Corp., Detroit, Mich.
Ceramic insulation for radiant heating environments and method of preparing the same
Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Constant temperature heat sink for calorimeters
Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

Chrysler Corp., Huntsville, Ala.
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

Clemson Univ., S.C.
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237

Collins Radio Co., Cedar Rapids, Iowa.
Power responsive overload sensing circuit
Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

Collins Radio Co., Dallas, Tex.

- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MS-C-12389] c 33 N71-29052
- Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241

Colorado State Univ., Fort Collins.

- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

Comprehensive Designers, Inc., Sherman Oaks, Calif.

- Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238

Computer Control Co., Inc., Framingham, Mass.

- Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
- Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

Computer Sciences Corp., Falls Church, Va.

- Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

Computer Sciences Corp., Greenbelt, Md.

- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

Computer Sciences Corp., Mountain View, Calif.

- Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

Conrac Corp., Pasadena, Calif.

- Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MS-C-12280] c 27 N71-16348

Consolidated Controls Corp., El Segundo, Calif.

- Low temperature latching solenoid
[NASA-CASE-MS-C-18106-1] c 33 N82-11357

Cornell Univ., Ithaca, N.Y.

- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

Crane Co., Burbank, Calif.

- Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028

Curtiss-Wright Corp., Wood-Ridge, N.J.

- Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330

Cutler-Hammer, Inc., Melville, N.Y.

- Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

D**Delaware Univ., Newark.**

- High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

Denver Univ., Colo.

- Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460

Department of Transportation, Cambridge, Mass.

- Optical noise suppression device and method
[NASA-CASE-MS-C-12640-1] c 74 N76-31998

Dorne and Margolin, Inc., Bohemia, N.Y.

- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

Douglas Aircraft Co., Inc., Santa Monica, Calif.

- Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588

- Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489

- Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881

- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721

- Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959

- Collapsible pistons
[NASA-CASE-MS-C-13789-1] c 11 N73-32152

Duke Univ., Durham, N. C.

- Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049

Dumont Electron Tubes, Clifton, N. J.

- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

Dynatherm Corp., Cockeysville, Md.

- Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

E**Echo Science Corp., Mountain View, Calif.**

- Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265

Eitel-McCullough, Inc., San Carlos, Calif.

- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

Electrac, Inc., Anaheim, Calif.

- Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Electric Storage Battery Co., Raleigh, N.C.

- Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129

- Storage battery comprising negative plates of a wedge shaped configuration
[NASA-CASE-NPO-11806-1] c 44 N74-19693

Electric Storage Battery Co., Yardley, Pa.

- Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032

Electro-Optical Systems, Inc., Pasadena, Calif.

- Focusing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618

- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

- Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468

- Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

- Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

- Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483

Electronic Image Systems Corp., Cambridge, Mass.

- Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489

Essex Corp., Huntville, Ala.

- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

Ewen Knight Corp., East Natick, Mass.

- Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

F**Fairchild Hiller Corp., Germantown, Md.**

- Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325

- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

Fairchild Republic Co., Farmingdale, N.Y.

- Surface conforming thermal/pressure seal
[NASA-CASE-MS-C-18422-1] c 37 N82-16408

Faraday Labs, Inc., La Jolla, Calif.

- Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

Federal-Mogul Corp., Los Alamitos, Calif.

- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975

Florida Univ., Gainesville.

- Safety flywheel
[NASA-CASE-HQN-10888-1] c 44 N79-14527

FMC Corp., New York.

- Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

Foothill Coll., Los Altos Hills, Calif.

- Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339

Ford Motor Co., Dearborn, Mich.

- Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

G**Garrett Corp., Los Angeles, Calif.**

- Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924

- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203

- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191

- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MS-C-10960-1] c 03 N71-24718

- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877

- Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MS-C-13335-1] c 06 N72-31140

- Flexible joint for pressurizable garment
[NASA-CASE-MS-C-11072] c 54 N74-32546

- Gas compression apparatus
[NASA-CASE-MS-C-14757-1] c 35 N78-10428

- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083

- Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

Garrett Corp., Torrance, Calif.

- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MS-C-25215-1] c 33 N83-31953

GCA Corp., Bedford, Mass.

- Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461

General Dynamics/Astronautics, San Diego, Calif.

- Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613

- Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036

- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830

General Dynamics/Convair, San Diego, Calif.

- Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468

- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968

- Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

- Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463

General Dynamics Corp., San Diego, Calif.

- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

- Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181

General Electric Co., Cincinnati, Ohio.

- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025

- Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170

- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

- Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

- Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148

- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

- Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501

- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

- Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056

- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384

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Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871

Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

Thrust reverser for a long duct fan engine
[NASA-CASE-LEW-13199-1] c 07 N82-26293

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

General Electric Co., Cleveland, Ohio.

Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

General Electric Co., Philadelphia, Pa.

Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

Didymium hydrate additive to nickel hydroxide electrodes
[NASA-CASE-XGS-03505] c 03 N71-10608

Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers
[NASA-CASE-XGS-02011] c 15 N71-20739

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MS-13917-1] c 05 N72-15098

Method for measuring cutaneous sensory perception
[NASA-CASE-MS-13609-1] c 05 N72-25122

Reaction tester
[NASA-CASE-MS-13604-1] c 05 N73-13114

Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

Electrophoretic sample insertion
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

Multiparameter vision testing apparatus
[NASA-CASE-MS-13601-2] c 54 N75-27759

Automatic biowaste sampling
[NASA-CASE-MS-14640-1] c 54 N76-14804

Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753

Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

General Electric Co., Pleasanton, Calif.

Method of making a cermet
[NASA-CASE-LEW-10219-1] c 18 N71-28729

General Electric Co., Schenectady, N.Y.

Superconductive accelerometer
[NASA-CASE-XMF-01099] c 14 N71-15969

Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460

Automatic transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350

Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

General Electric Co., Utica, N.Y.

Method of determining bond quality of power transistors attached to substrates
[NASA-CASE-MFS-21931-1] c 37 N75-26372

General Motors Corp., Detroit, Mich.

Hermetic sealed vibration damper
[NASA-CASE-MS-10959] c 15 N71-26243

General Motors Corp., Milwaukee, Wis.

Adjustable tension wire guide
[NASA-CASE-XMS-02383] c 15 N71-15918

General Motors Corp., Santa Barbara, Calif.

Resilient wheel
[NASA-CASE-MFS-13929] c 15 N71-27091

General Precision, Inc., Little Falls, N.J.

Reversible current control apparatus
[NASA-CASE-XLA-09371] c 10 N71-18724

General Precision, Inc., Sunnyvale, Calif.

Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156

General Precision Systems, Inc., Little Falls, N.J.

Fluidic-thermochromic display device
[NASA-CASE-ERC-10031] c 12 N71-18603

General Research Corp., Santa Barbara, Calif.

Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

General Technologies Corp., Reston, Va.

Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

Geophysics Corp. of America, Bedford, Mass.

Inflation system for balloon type satellites
[NASA-CASE-XGS-03351] c 31 N71-16081

Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

Geophysics Corp. of America, Boston, Mass.

Ionospheric battery
[NASA-CASE-XGS-01593] c 03 N70-35408

George Washington Univ., Washington, D.C.

Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

Giannini Scientific Corp., Santa Ana, Calif.

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

Combination automatic-starting electrical plasma torch and gas shutoff valve
[NASA-CASE-XLE-10717] c 37 N75-29426

Giner, Inc., Waltham, Mass.

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Globe-Union, Inc., Milwaukee, Wis.

Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037

Goodyear Aerospace Corp., Akron, Ohio.

Foldable solar concentrator
[NASA-CASE-XLA-04622] c 03 N70-41580

Method of making a filament-wound container
[NASA-CASE-XLE-03803-2] c 15 N71-17851

Filament wound container
[NASA-CASE-XLE-03803] c 15 N71-23816

Panelized high performance multilayer insulation
[NASA-CASE-MFS-14023] c 33 N71-25351

Thermally activated foaming compositions
[NASA-CASE-LAR-10373-1] c 18 N71-26155

Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

Grace (W. R.) and Co., Clarksville, Md.

Metal containing polymers from cyclic tetrameric phenylphosphonitrimides
[NASA-CASE-HQN-10364] c 06 N71-27363

Grumman Aerospace Corp., Bethpage, N.Y.

Multi-leg heat pipe evaporator
[NASA-CASE-MS-20812-1] c 34 N86-27593

Grumman Aircraft Engineering Corp., Bethpage, N.Y.

Sealed cabinetry
[NASA-CASE-MS-12168-1] c 09 N71-18600

Out of tolerance warning alarm system for plurality of monitored circuits
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Gulf General Atomic, San Diego, Calif.

Waveform simulator
[NASA-CASE-NPO-10251] c 10 N71-27365

Gulton Industries, Inc., Albuquerque, N.Mex.

Analog-to-digital converter
[NASA-CASE-MS-13110-1] c 08 N72-22163

Hamilton Standard, Windsor Locks, Conn.

Venting device for pressurized space suit helmet
[NASA-CASE-XMS-09652-1] c 05 N71-26333

Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MS-14771-1] c 54 N77-32722

Cell and method for electrolysis of water and anode
[NASA-CASE-MS-16394-1] c 28 N81-24280

Slow opening valve
[NASA-CASE-MS-20112-1] c 37 N85-20338

Hamilton Standard Div., United Aircraft Corp., Windsor Locks, Conn.

Condensate removal device for heat exchanger
[NASA-CASE-MS-14143-1] c 77 N75-20139

Harris Corp., Melbourne, Fla.

Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

Telescoping columns
[NASA-CASE-LAR-12195-1] c 31 N81-27324

Hayes International Corp., Birmingham, Ala.

Space craft soft landing system
[NASA-CASE-XMF-02108] c 31 N70-36845

Device for preventing high voltage arcing in electron beam welding
[NASA-CASE-XMF-08522] c 15 N71-19486

Hayes International Corp., Huntsville, Ala.

Method and apparatus for cryogenic wire stripping
[NASA-CASE-MFS-10340] c 15 N71-17628

Self-balancing strain gage transducer
[NASA-CASE-MFS-12827] c 14 N71-17656

Automatic closed circuit television arc guidance control
[NASA-CASE-MFS-13046] c 07 N71-19433

Hazleton Labs., Falls Church, Va.

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

Light detection instrument
[NASA-CASE-XGS-05534] c 23 N71-16355

Lyophilized reaction mixtures
[NASA-CASE-XGS-05532] c 06 N71-17705

Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465

HC Chem Research and Service, San Jose, Calif.

High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

Hercules, Inc., Wilmington, Del.

Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001

Hoffman Electronics Corp., El Monte, Calif.

Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267

Honeywell, Inc., Hopkins, Minn.

Frequency control network for a current feedback oscillator
[NASA-CASE-GSC-10041-1] c 10 N71-19418

Honeywell, Inc., Minneapolis, Minn.

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Apparatus for overcurrent protection of a push-pull amplifier
[NASA-CASE-MS-12033-1] c 09 N71-13531

Static inverter
[NASA-CASE-XGS-05289] c 09 N71-19470

High impedance measuring apparatus
[NASA-CASE-XMS-08589-1] c 09 N71-20569

Clamping assembly for inertial components
[NASA-CASE-XMS-02184] c 15 N71-20813

Piezoelectric pump
[NASA-CASE-XNP-05429] c 26 N71-21824

Controllers
[NASA-CASE-XMS-07487] c 15 N71-23255

Convoluting device for forming convolutions and the like
[NASA-CASE-XNP-05297] c 15 N71-23811

Failure sensing and protection circuit for converter networks
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Voice operated controller
[NASA-CASE-XLA-04063] c 31 N71-33160

Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249

Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462

Optical instruments
[NASA-CASE-MS-14096-1] c 74 N74-15095

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482

Honeywell, Inc., St. Petersburg, Fla.
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Houston Univ., Tex.
Analysis of volatile organic compounds
[NASA-CASE-MSC-14428-1] c 23 N77-17161

Howard Univ., Washington, D. C.
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
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[NASA-CASE-GSC-12081-2] c 52 N82-22875
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

Hughes Aircraft Co., Culver City, Calif.
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
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[NASA-CASE-XLE-00815] c 15 N70-35407
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[NASA-CASE-XLE-00702] c 14 N70-40203
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[NASA-CASE-XGS-01504] c 16 N70-41578
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
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[NASA-CASE-GSC-10452] c 07 N71-12396
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[NASA-CASE-XNP-09808] c 09 N71-12518
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[NASA-CASE-XNP-09572] c 14 N71-15621
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
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[NASA-CASE-XLE-00703] c 15 N71-15967
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[NASA-CASE-XNP-01735] c 07 N71-22750
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[NASA-CASE-XNP-04338] c 17 N71-23046
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[NASA-CASE-XNP-02923] c 28 N71-23081
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[NASA-CASE-XNP-00597] c 18 N71-23088
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[NASA-CASE-XNP-02139] c 18 N71-24184
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[NASA-CASE-XGS-02290] c 07 N71-28809
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[NASA-CASE-XNP-03916] c 09 N71-28810
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[NASA-CASE-XNP-01954] c 28 N71-28850
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[NASA-CASE-HQN-00936] c 31 N71-29050
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[NASA-CASE-XNP-04339] c 17 N71-29137
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[NASA-CASE-LEW-10770-1] c 28 N72-22770
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[NASA-CASE-MFS-22324-1] c 27 N75-27160

Hughes Aircraft Co., Los Angeles, Calif.
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[NASA-CASE-XNP-02713] c 10 N69-39888
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[NASA-CASE-XNP-00463] c 33 N70-36847
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[NASA-CASE-XNP-02839] c 28 N70-41922
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[NASA-CASE-XNP-01412] c 15 N70-42034
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[NASA-CASE-XNP-09768] c 09 N71-12516
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[NASA-CASE-XNP-08274] c 10 N71-13537
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[NASA-CASE-NPO-10298] c 12 N71-17661
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[NASA-CASE-XNP-09450] c 10 N71-18723
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[NASA-CASE-XNP-00777] c 10 N71-19469
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
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[NASA-CASE-XNP-02592] c 24 N71-20518
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[NASA-CASE-NPO-10096] c 07 N71-24583
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[NASA-CASE-XGS-05180] c 18 N71-25881
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[NASA-CASE-NPO-10302] c 10 N71-26142
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[NASA-CASE-XMS-06740-1] c 07 N71-26579
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[NASA-CASE-NPO-03413] c 03 N71-26726
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[NASA-CASE-XNP-04262-2] c 17 N71-26773
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
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[NASA-CASE-NPO-10303] c 07 N72-22127
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[NASA-CASE-NPO-11377] c 15 N73-27406
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[NASA-CASE-GSC-11909] c 32 N74-20863
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[NASA-CASE-MFS-22411-1] c 37 N74-21058
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
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[NASA-CASE-MSC-18035-1] c 32 N81-15179
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[NASA-CASE-GSC-12147-1] c 32 N81-27341
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[NASA-CASE-MSC-20036-1] c 76 N85-33826

Hughes Research Labs., Malibu, Calif.
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[NASA-CASE-XLE-05260] c 14 N71-20429

IIT Research Inst., Chicago, Ill.

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[NASA-CASE-XMF-02039] c 15 N71-15871
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[NASA-CASE-XMF-05279] c 18 N71-16124
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
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[NASA-CASE-KSC-10108] c 14 N73-25461
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[NASA-CASE-MFS-23345-1] c 27 N77-30237

ILC Technology, Inc., Sunnyvale, Calif.
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

Illinois Univ., Urbana.

Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

Image Information, Inc., Danbury, Conn.

Recorder/processor apparatus
[NASA-CASE-GSC-11553-1] c 35 N74-15831

Inca Engineering Corp., San Gabriel, Calif.

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

Institute for Research, Inc., Houston, Tex.

Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120

Institute of Research and Instrumentation, Houston, Tex.

Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346

International Business Machines Corp., Hopewell Junction, N. Y.

Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

International Business Machines Corp., New York.

Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
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[NASA-CASE-XMF-02107] c 15 N71-10809
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[NASA-CASE-GSC-10564] c 10 N71-29135

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Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245

International Harvester Co., San Diego, Calif.

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[NASA-CASE-XLE-10910] c 18 N71-29040

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[NASA-CASE-GSC-12566-1] c 33 N83-34189
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[NASA-CASE-GSC-12565-1] c 36 N84-14509

International Latex Corp., Dover, Del.

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[NASA-CASE-MSC-12609-1] c 05 N73-32012

Isomet Corp., Palisades Park, N.J.

Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

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[NASA-CASE-GSC-10373-1] c 07 N71-19773
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[NASA-CASE-XGS-08679] c 10 N71-21473
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[NASA-CASE-GSC-10390-1] c 07 N72-11149

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James and Associates, Lancaster, Calif.

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

Jet Propulsion Lab., California Inst. of Tech., Pasadena.

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[NASA-CASE-XNP-09752] c 14 N69-21541
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
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[NASA-CASE-XNP-09785] c 08 N69-21928
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[NASA-CASE-XNP-05975] c 15 N69-23185
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[NASA-CASE-XNP-09227] c 15 N69-24319
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[NASA-CASE-MS-C-20261-2] c 54 N84-23113

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[NASA-CASE-MSC-13492-1] c 10 N71-28860

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[NASA-CASE-MSC-14065-1] c 32 N74-26654

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[NASA-CASE-MSC-14066-1] c 33 N74-27705

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[NASA-CASE-MSC-14130-1] c 33 N74-32711

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[NASA-CASE-MSC-14129-1] c 33 N75-18479

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[NASA-CASE-MSC-14131-1] c 33 N75-19515

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[NASA-CASE-MSC-14557-1] c 32 N76-16249

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[NASA-CASE-MSC-14683-1] c 74 N77-18893

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[NASA-CASE-MSC-14939-1] c 32 N79-11264

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[NASA-CASE-MSC-16461-1] c 33 N79-11313

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[NASA-CASE-MSC-18334-1] c 32 N80-32604

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[NASA-CASE-MSC-18255-1] c 74 N80-33210

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[NASA-CASE-MSC-16462-1] c 32 N82-31583

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[NASA-CASE-MSC-14182-1] c 27 N76-14264

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[NASA-CASE-MSC-14831-1] c 25 N78-10225

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[NASA-CASE-MFS-21728-1] c 35 N74-27865

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Meter for use in detecting tension in straps having predetermined elastic characteristics
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[NASA-CASE-NPO-10862] c 06 N72-22107

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Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Boron-containing organosilane polymers and ceramic materials thereof
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[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
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Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
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Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
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Method and apparatus for making an optical element having a dielectric film
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[NASA-CASE-XGS-02437] c 15 N69-21472

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Active tuned circuit
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Electric motive machine including magnetic bearing
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Cosmic dust or other similar outer space particles impact location detector
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Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444

System for stabilizing torque between a balloon and gondola
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Diffuse reflective coating
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Data processor with conditionally supplied clock signals
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Apparatus for vibrational testing of articles
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Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853

Plural beam antenna
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Star tracking reticles and process for the production thereof
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Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039

Doppler compensation by shifting transmitted object frequency within limits
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Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241

Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513

Low outgassing polydimethylsiloxane material and preparation thereof
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Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052

Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
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Process for making RF shielded cable connector assemblies and the products formed thereby
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Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
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Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

Spacecraft attitude sensor
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Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
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Star tracking reticles
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Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360

Recorder/processor apparatus
[NASA-CASE-GSC-11553-1] c 35 N74-15831

Method of making porous conductive supports for electrodes
[NASA-CASE-GSC-11367-1] c 44 N74-19692

Formation of star tracking reticles
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Radiation hardening of MOS devices by boron
[NASA-CASE-GSC-11425-1] c 76 N74-20329

Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860

Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly
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Ultra-stable oscillator with complementary transistors
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High efficiency multifrequency feed
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Turnstile slot antenna
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Method and apparatus for checking fire detectors
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Long range laser traversing system
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Method and apparatus for optically monitoring the angular position of a rotating mirror
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Image tube
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Apparatus for controlling the temperature of balloon-borne equipment
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Coaxial anode wire for gas radiation counters
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Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

Heat flow calorimeter
[NASA-CASE-GSC-11434-1] c 34 N74-27859

Air conditioning system and component therefore distributing air flow from opposite directions
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Passive dual spin misalignment compensators
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Millimeter wave pumped parametric amplifier
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Structural heat pipe
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Remote platform power conserving system
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Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Magnetic bearing
[NASA-CASE-GSC-11079-1] c 37 N75-18574

Dish antenna having switchable beamwidth
[NASA-CASE-GSC-11760-1] c 33 N75-19516

X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517

Controllable high voltage source having fast settling time
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Dually mode locked Nd:YAG laser
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Low speed phaselock speed control system
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Modulator for tone and binary signals
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Digital phase-locked loop
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Radiation hardening of MOS devices by boron
[NASA-CASE-GSC-11425-2] c 76 N75-25730

Correlation type phase detector
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Process for making sheets with parallel pores of uniform size
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Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331

Single frequency, two feed dish antenna having switchable beamwidth
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Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

Atomic standard with variable storage volume
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High voltage distributor
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Moving particle composition analyzer
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Variable beamwidth antenna
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Automatic character skew and spacing checking network
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Axially and radially controllable magnetic bearing
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Apparatus for simulating optical transmission links
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Telemetry synchronizer
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Locking mechanism for orthopedic braces
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Ultraviolet light reflective coating
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Switchable beamwidth monopulse method and system
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Method of detecting and counting bacteria
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Polarization compensator for optical communications
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Static coefficient test method and apparatus
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Method and apparatus for neutralizing potentials induced on spacecraft surfaces
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Linear phase demodulator including a phase locked loop with auxiliary feedback loop
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Reel safety brake
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Magnetic bearing system
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Method and apparatus for measuring web material wound on a reel
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Method and apparatus for splitting a beam of energy
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System for and method of freezing biological tissue
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Partial polarizer filter
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Thermal compensator for closed-cycle helium refrigerator
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Rotary electric device
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Low intensity X-ray and gamma-ray imaging device
[NASA-CASE-GSC-12263-1] c 74 N79-20857

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

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Automatic frequency control loop including synchronous switching circuits
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Zero gravity shadow shield aligner
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Universal environment package with sectional component housing
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Lamp modulator
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System and method for refurbishing and processing parachutes
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Method and system for in vivo measurement of bone tissue using a two level energy source
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Analysis of volatile organic compounds
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System for producing chroma signals
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Fluid mass sensor for a zero gravity environment
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Mechanical sequencer
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Unbalanced quadrature demodulator
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Open loop digital frequency multiplier
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Platinum resistance thermometer circuit
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Surface finishing
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Pressure modulating valve
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Snap-in compressible biomedical electrode
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Load regulating latch
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Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
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Process of forming catalytic surfaces for wet oxidation reactions
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Hearing aid malfunction detection system
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Gas compression apparatus
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Low gravity phase separator
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Iodine generator for reclaimed water purification
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Flame retardant spandex type polyurethanes
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Temperature compensated current source
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Microbalance
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Adjustable securing base
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Restraining mechanism
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Helmet latching and attaching ring
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Protective garment ventilation system
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Helmet feedport
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Optical conversion method
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Emergency space-suit helmet
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Method of producing complex aluminum alloy parts of high temper. and products thereof
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Flexible pile thermal barrier insulator
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Fluid valve assembly
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Variable contour securing system
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Multi-purpose wind tunnel reaction control model block
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Heat resistant polymers of oxidized styrylphosphine
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Condition sensor system and method
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Bit error rate measurement above and below bit rate tracking threshold
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Phased array antenna control
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Apparatus and method for stabilized phase detection for binary signal tracking loops
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Positive isolation disconnect
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Thermal insulation attaching means
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Lightweight electrically-powered flexible thermal laminate
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Simultaneous treatment of SO₂ containing stack gases and waste water
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Length mode piezoelectric ultrasonic transducer for inspection of solid objects
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Interactive color display for multispectral imagery using correlation clustering
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Sequencing device utilizing planetary gear set
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Water separator
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Metabolic rate meter and method
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Fluid sample collection and distribution system
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Thermal insulation protection means
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System for automatically switching transformer coupled lines
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Fused switch
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Chassis unit insert tightening-extract device
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Compound oxidized styrylphosphine
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Portable breathing system
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Method and apparatus for eliminating luminol interference material
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Pressure limiting propellant actuating system
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Method of forming dynamic membrane on stainless steel support
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Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

Violet process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c 27 N80-26446

Method and automated apparatus for detecting coliform organisms
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Multiple band circularly polarized microstrip antenna
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Multispectral scanner optical system
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Surface finishing
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Coaxial phased array antenna
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Installing fiber insulation
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Pseudonoise code tracking loop
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Thermal barrier pressure seal
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Digital numerically controlled oscillator
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Self-calibrating threshold detector
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Cell and method for electrolysis of water and anode
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Urine collection device
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Method for applying photographic resists to otherwise incompatible substrates
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Structural members, method and apparatus
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Shielded conductor cable system
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Urine collection apparatus
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Reciprocating engines
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Cavity-backed, micro-strip dipole antenna array
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Low temperature latching solenoid
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Logic-controlled occlusive cuff system
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Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166

Heat sealable, flame and abrasion resistant coated fabric
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Surface conforming thermal/pressure seal
[NASA-CASE-MSC-18422-1] c 37 N82-16408

Direct current ballast circuit for metal halide lamp
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Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491

High temperature penetrator assembly with bayonet plug and ramp-activated lock
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A method and technique for installing light-weight fragile, high-temperature fiber insulation
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Open ended tubing cutters
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Reusable captive blind fastener
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Spiral slotted phased antenna array
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Thermal garment
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Reconfiguring redundancy management
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Absorbent product to absorb fluids
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Attachment system for silica tiles
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Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

CAM controlled retractable door latch
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Densification of porous refractory substrates
[NASA-CASE-MSC-18737-1] c 24 N83-13171

Method of repairing surface damage to porous refractory substrates
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Gas-to-hydraulic power converter
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Kinesimetric method and apparatus
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Compression test apparatus
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Bio-medical flow sensor
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Apparatus for determining changes in limb volume
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Degassifying and mixing apparatus for liquids
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Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

Automatic compression adjusting mechanism for internal combustion engines
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Absorbent product and articles made therefrom
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Method and technique for installing light-weight, fragile, high-temperature fiber insulation
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Method and apparatus for simulating gravitational forces on a living organism
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Pre-stressed thermal protection systems
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Apparatus for releasably connecting first and second objects in predetermined space relationship
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Tanker orbit transfer vehicle and method
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Doppler radar having phase modulation of both transmitted and reflected return signals
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Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113

Method and apparatus for receiving and tracking phase modulated signals
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Heat resistant protective hand covering
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Digital interface for bi-directional communication between a computer and a peripheral device
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			Process for control of cell division [NASA-CASE-LAR-10773-3]	c 51	N77-25769	Magnetic suspension and pointing system [NASA-CASE-LAR-11889-1]	c 35	N79-26372
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[NASA-CASE-LAR-12705-1]	c 25	N82-26396
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[NASA-CASE-LAR-12659-1]	c 33	N82-26570
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[NASA-CASE-LAR-12465-1]	c 33	N82-26572
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Aeroleastic instability stoppers for wind tunnel models		
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[NASA-CASE-LAR-12495-1]	c 44	N83-28573
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[NASA-CASE-LAR-12706-1]	c 35	N84-12444	
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[NASA-CASE-LAR-12882-1]	c 35	N84-12445	
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[NASA-CASE-LAR-12923-1]	c 37	N84-12493	
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[NASA-CASE-LAR-12638-1]	c 04	N84-14132	
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[NASA-CASE-LAR-12881-1]	c 27	N84-14323	
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[NASA-CASE-LAR-12686-1]	c 35	N84-14491	
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[NASA-CASE-LAR-12751-1]	c 15	N84-16231	
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[NASA-CASE-LAR-12007-3]	c 35	N84-16523	
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[NASA-CASE-LAR-12541-1]	c 05	N84-22551	
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[NASA-CASE-LAR-12650-1]	c 52	N84-28388	
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Arc electrode of graphite with ball tip Patent
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[NASA-CASE-XLE-03280] c 14 N71-23093

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High temperature ferromagnetic cobalt-base alloy Patent
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Induction furnace with perforated tungsten foil shielding Patent
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[NASA-CASE-XLE-02823] c 09 N71-23443

Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449

Analytical test apparatus and method for determining oxide content of alkali metal Patent
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Method of attaching a cover glass to a silicon solar cell Patent
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Apparatus for making curved reflectors Patent
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Flow angle sensor and read out system Patent
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Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911

Pneumatic oscillator Patent
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Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-XLE-11358] c 03 N71-26084

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
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Ion beam deflector Patent
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[NASA-CASE-XLE-09527-2] c 15 N71-26189

Ion thruster accelerator system Patent
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Propellant feed isolator Patent
[NASA-CASE-XLE-10210-1] c 28 N71-26781

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Process for glass coating an ion accelerator grid Patent
[NASA-CASE-XLE-10278-1] c 15 N71-28582

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[NASA-CASE-XLE-10250-1] c 22 N71-28759

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[NASA-CASE-XLE-00027] c 33 N71-29152

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[NASA-CASE-XLE-00155] c 28 N71-29154

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[NASA-CASE-XLE-04599] c 22 N72-20597

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Isothermal cover with thermal reservoirs Patent
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Storage container for electronic devices Patent
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Method and apparatus for precision sizing and joining of large diameter tubes Patent
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Filter system for control of outgas contamination in vacuum Patent
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Image magnification adapter for cameras Patent
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Thickness measuring and injection device Patent
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Personal propulsion unit Patent
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Power system with heat pipe liquid coolant lines Patent
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Method of making shielded flat cable Patent
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A dc motor speed control system Patent
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Cryogenic thermal insulation Patent
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Method of coating through-holes Patent
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Response analyzers for sensors Patent
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Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212

Nuclear mass flowmeter
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Fine adjustment mount
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Method of making foamed materials in zero gravity
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Air bearing assembly for curved surfaces
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Stud-bonding gun
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Apparatus for obtaining isotropic irradiation of a specimen
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Wind tunnel test section
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Multiple image storing system for high speed projectile holography
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Method of manufacturing semiconductor devices using refractory dielectrics
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Underwater space suit pressure control regulator
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Apparatus for making diamonds
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An airlock
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Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N71-21094

Liquid aerosol dispenser
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Optical probing of supersonic flows with statistical correlation
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Mechanically actuated triggered hand
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Hermetically sealed elbow actuator
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Shielded flat cable
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Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N71-22439

Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N71-22492

Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N71-22566

High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215

Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148

Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151

Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261

Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288

Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262

Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412

Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225

Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495

Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496

Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446

Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377

Polyimide resin-fiberglass cloth laminates for printed circuit boards
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Differential pressure control
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Redundant hydraulic control system for actuators
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Device and method for determining X ray reflection efficiency of optical surfaces
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Process for making diamonds
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Test stand system for vacuum chambers
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Material fatigue testing system
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Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473

Underwater space suit pressure control regulator
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Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460

Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751

Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876

Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377

Apparatus and method for skin packaging articles
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Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941

Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078

Measurement system
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Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389

Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476

Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532

Polymerizable disilanol having in-chain perfluoroalkyl groups
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Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107

Induction motor control system with voltage controlled oscillator circuit
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Synthesis of superconducting compounds by explosive compaction of powders
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National Aeronautics and Space Administration.
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Phase control circuits using frequency multiplications for phased array antennas
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Zinc-halide battery with molten electrolyte
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Miniature muscle displacement transducer
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Hydrogen rich gas generator
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[NASA-CASE-NPO-13545-1] c 32 N77-12240

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[NASA-CASE-NPO-13666-1] c 27 N77-13217

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[NASA-CASE-NPO-11515-1] c 33 N77-13315

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

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[NASA-CASE-NPO-13753-1] c 32 N77-20289

Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315

Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316

Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393

Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941

Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386

Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951

Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502

Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

Penetrometer
[NASA-CASE-NPO-11103-1] c 35 N77-27367

Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933

Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365

Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308

Combustion engine
[NASA-CASE-NPO-13671-1] c 37 N77-31497

Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255

Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455

Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580

Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581

Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582

Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583

Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377

Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429

Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493

Portable linear-focused solar thermal energy collecting system			Portable electrophoresis apparatus using minimum electrolyte			System and method for obtaining wide screen Schlieren photographs		
[NASA-CASE-NPO-13734-1]	c 44	N78-10554	[NASA-CASE-NPO-13274-1]	c 25	N79-10163	[NASA-CASE-NPO-14174-1]	c 74	N79-20856
Acoustic energy shaping			Automatic communication signal monitoring system			Dynamic capacitor having a peripherally driven element and system incorporating the same		
[NASA-CASE-NPO-13802-1]	c 71	N78-10837	[NASA-CASE-NPO-13941-1]	c 32	N79-10262	[NASA-CASE-XNP-02899-1]	c 33	N79-21265
High voltage, high current Schottky barrier solar cell			Surface roughness measuring system			Seismic vibration source		
[NASA-CASE-NPO-13482-1]	c 44	N78-13526	[NASA-CASE-NPO-13862-1]	c 35	N79-10391	[NASA-CASE-NPO-14112-1]	c 46	N79-22679
Durable antistatic coating for polymethylmethacrylate			Vehicular impact absorption system			Underwater seismic source		
[NASA-CASE-NPO-13867-1]	c 27	N78-14164	[NASA-CASE-NPO-14014-1]	c 37	N79-10420	[NASA-CASE-NPO-14255-1]	c 46	N79-23555
Ultra stable frequency distribution system			Dual membrane hollow fiber fuel cell and method of operating same			Resolution enhanced sound detecting apparatus		
[NASA-CASE-NPO-13836-1]	c 32	N78-15323	[NASA-CASE-NPO-13732-1]	c 44	N79-10513	[NASA-CASE-NPO-14134-1]	c 71	N79-23753
Selective image area control of X-ray film exposure density			Combuster			Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt		
[NASA-CASE-NPO-13808-1]	c 35	N78-15461	[NASA-CASE-NPO-13958-1]	c 25	N79-11151	[NASA-CASE-NPO-13969-1]	c 76	N79-23798
Motion restraining device			Surfactant-assisted liquefaction of particulate carbonaceous substances			Phase conjugation method and apparatus for an active retrodirective antenna array		
[NASA-CASE-NPO-13619-1]	c 37	N78-16369	[NASA-CASE-NPO-13904-1]	c 25	N79-11152	[NASA-CASE-NPO-13641-1]	c 32	N79-24210
Ruler for making navigational computations			Electroexplosive device			Module failure isolation circuit for paralleled inverters		
[NASA-CASE-XNP-01458]	c 04	N78-17031	[NASA-CASE-NPO-13858-1]	c 28	N79-11231	[NASA-CASE-NPO-14000-1]	c 33	N79-24254
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof			Space-charge-limited solid-state triode			Circuit for automatic load sharing in parallel converter modules		
[NASA-CASE-NPO-10557]	c 27	N78-17214	[NASA-CASE-NPO-13064-1]	c 33	N79-11314	[NASA-CASE-NPO-14056-1]	c 33	N79-24257
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement			Plasma igniter for internal combustion engine			Bonding machine for forming a solar array strip		
[NASA-CASE-NPO-13764-1]	c 27	N78-17215	[NASA-CASE-NPO-13828-1]	c 37	N79-11405	[NASA-CASE-NPO-13652-2]	c 44	N79-24431
Purging means and method for Xenon arc lamps			Solar photolysis of water			Primary reflector for solar energy collection systems and method of making same		
[NASA-CASE-NPO-11978]	c 31	N78-17238	[NASA-CASE-NPO-14126-1]	c 44	N79-11470	[NASA-CASE-NPO-13579-3]	c 44	N79-24432
Pressure transducer			Non-tracking solar energy collector system			Solar energy collection system		
[NASA-CASE-NPO-11150]	c 35	N78-17359	[NASA-CASE-NPO-13817-1]	c 44	N79-11471	[NASA-CASE-NPO-13579-2]	c 44	N79-24433
Wobble gear drive mechanism			Method of controlling defect orientation in silicon crystal ribbon growth			Compact artificial hand		
[NASA-CASE-WOO-00625]	c 37	N78-17385	[NASA-CASE-NPO-13918-1]	c 76	N79-11920	[NASA-CASE-NPO-13906-1]	c 54	N79-24652
Apparatus for handling micron size range particulate material			Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells			Double-sided solar cell package		
[NASA-CASE-NPO-10151]	c 37	N78-17386	[NASA-CASE-NPO-14100-1]	c 44	N79-12541	[NASA-CASE-NPO-14199-1]	c 44	N79-25482
Cross correlation anomaly detection system			Automated clinical system for chromosome analysis			Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means		
[NASA-CASE-NPO-13283]	c 38	N78-17395	[NASA-CASE-NPO-13913-1]	c 52	N79-12694	[NASA-CASE-NPO-13910-1]	c 52	N79-27836
Automatic visual inspection system for microelectronics			Conical scan tracking system employing a large antenna			Chemical vapor deposition reactor		
[NASA-CASE-NPO-13282]	c 38	N78-17396	[NASA-CASE-NPO-14009-1]	c 32	N79-13214	[NASA-CASE-NPO-13650-1]	c 25	N79-28253
Low cost solar energy collection system			Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6			High performance ammonium nitrate propellant		
[NASA-CASE-NPO-13579-1]	c 44	N78-17460	[NASA-CASE-NPO-13993-1]	c 72	N79-13826	[NASA-CASE-NPO-14260-1]	c 28	N79-28342
Differential optoacoustic absorption detector			High temperature resistant cermet and ceramic compositions			Biocontamination and particulate detection system		
[NASA-CASE-NPO-13759-1]	c 74	N78-17867	[NASA-CASE-NPO-13690-2]	c 27	N79-14213	[NASA-CASE-NPO-13953-1]	c 35	N79-28527
Interferometer mirror tilt correcting system			Inhibited solid propellant composition containing beryllium hydride			Solar cell with improved N-region contact and method of forming the same		
[NASA-CASE-NPO-13687-1]	c 35	N78-18391	[NASA-CASE-NPO-10866-1]	c 28	N79-14228	[NASA-CASE-NPO-14205-1]	c 44	N79-31752
Over-under double-pass interferometer			Digital demodulator-correlator			Solar cell module		
[NASA-CASE-NPO-13999-1]	c 35	N78-18395	[NASA-CASE-NPO-13982-1]	c 32	N79-14267	[NASA-CASE-NPO-14467-1]	c 44	N79-31753
Independent gain and bandwidth control of a traveling wave maser			Azimuth correlator for real-time synthetic aperture radar image processing			Multi-channel rotating optical interface for data transmission		
[NASA-CASE-NPO-13801-1]	c 36	N78-18410	[NASA-CASE-NPO-14019-1]	c 32	N79-14268	[NASA-CASE-NPO-14066-1]	c 74	N79-34011
High temperature resistant cermet and ceramic compositions			Apparatus for providing a servo drive signal in a high-speed stepping interferometer			Start up system for hydrogen generator used with an internal combustion engine		
[NASA-CASE-NPO-13690-1]	c 27	N78-19302	[NASA-CASE-NPO-13569-2]	c 35	N79-14348	[NASA-CASE-NPO-13849-1]	c 28	N80-10374
Thin conformal antenna array for microwave power conversions			High-torque open-end wrench			Sodium storage and injection system		
[NASA-CASE-NPO-13886-1]	c 32	N78-24391	[NASA-CASE-NPO-13541-1]	c 37	N79-14383	[NASA-CASE-NPO-14384-1]	c 37	N80-10494
Multistation refrigeration system			Sun tracking solar energy collector			System for detecting substructure microfractures and method therefore		
[NASA-CASE-NPO-13839-1]	c 31	N78-25256	[NASA-CASE-NPO-13921-1]	c 44	N79-14526	[NASA-CASE-NPO-14192-1]	c 39	N80-10507
Swept group delay measurement			Primary reflector for solar energy collection systems			Borehole geological assessment		
[NASA-CASE-NPO-13909-1]	c 33	N78-25319	[NASA-CASE-NPO-13579-4]	c 44	N79-14529	[NASA-CASE-NPO-14231-1]	c 46	N80-10709
Polymeric electrolytic hygrometer			Gas diffusion liquid storage bag and method of use for storing blood			Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control		
[NASA-CASE-NPO-13948-1]	c 35	N78-25391	[NASA-CASE-NPO-13930-1]	c 52	N79-14749	[NASA-CASE-NPO-14474-1]	c 26	N80-14229
Charge transfer reaction laser with preionization means			Coupling apparatus for ultrasonic medical diagnostic system			Electromagnetic power absorber		
[NASA-CASE-NPO-13945-1]	c 36	N78-27402	[NASA-CASE-NPO-13935-1]	c 52	N79-14751	[NASA-CASE-NPO-13830-1]	c 32	N80-14281
Hexagon solar power panel			Thermomagnetic recording and magnetic-optic playback system			Multiple anode arc lamp system		
[NASA-CASE-NPO-12148-1]	c 44	N78-27515	[NASA-CASE-NPO-10872-1]	c 35	N79-16246	[NASA-CASE-NPO-10857-1]	c 33	N80-14330
RF beam center location method and apparatus for power transmission system			Manganese bismuth films with narrow transfer characteristics for Curie-point switching			Method for analyzing radiation sensitivity of integrated circuits		
[NASA-CASE-NPO-13821-1]	c 44	N78-28594	[NASA-CASE-NPO-11336-1]	c 76	N79-16678	[NASA-CASE-NPO-14350-1]	c 33	N80-14332
Control for nuclear thermionic power source			Multispectral imaging and analysis system			Apparatus for electrolytically tapered or contoured cavities		
[NASA-CASE-NPO-13114-2]	c 73	N78-28913	[NASA-CASE-NPO-13691-1]	c 43	N79-17288	[NASA-CASE-XNP-08835-1]	c 37	N80-14395
Magneto-optic detection system with noise cancellation			Solar array strip and a method for forming the same			Method for forming a solar array strip		
[NASA-CASE-NPO-11954-1]	c 35	N78-29421	[NASA-CASE-NPO-13652-1]	c 44	N79-17314	[NASA-CASE-NPO-13652-3]	c 44	N80-14474
Nitramine propellants			Process for purification of waste water produced by a Kraft process pulp and paper mill			Ozonation of cooling tower waters		
[NASA-CASE-NPO-14103-1]	c 28	N78-31255	[NASA-CASE-NPO-13847-2]	c 85	N79-17747	[NASA-CASE-NPO-14340-1]	c 45	N80-14579
Reflex feed system for dual frequency antenna with frequency cutoff means			Thermal energy transformer			System for real-time crustal deformation monitoring		
[NASA-CASE-NPO-14022-1]	c 32	N78-31321	[NASA-CASE-NPO-14058-1]	c 44	N79-18443	[NASA-CASE-NPO-14124-1]	c 46	N80-14603
Solar pond			Electromagnetic radiation energy arrangement			Dialysis system		
[NASA-CASE-NPO-13581-2]	c 44	N78-31525	[NASA-CASE-WOO-00428-1]	c 32	N79-19186	[NASA-CASE-NPO-14101-1]	c 52	N80-14687
Non-tracking solar energy collector system			Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths			High resolution threshold photoelectron spectroscopy by electron attachment		
[NASA-CASE-NPO-13813-1]	c 44	N78-31526	[NASA-CASE-NPO-14525-1]	c 32	N79-19195	[NASA-CASE-NPO-14078-1]	c 72	N80-14877
Coal desulfurization process			Method and turbine for extracting kinetic energy from a stream of two-phase fluid			Strong thin membrane structure		
[NASA-CASE-NPO-13937-1]	c 44	N78-31527	[NASA-CASE-NPO-14130-1]	c 34	N79-20335	[NASA-CASE-NPO-14021-2]	c 27	N80-16163
Solid propellant motor			Digital data reformatter/deserializer			Antenna feed system for receiving circular polarization and transmitting linear polarization		
[NASA-CASE-NPO-11458A]	c 20	N78-32179	[NASA-CASE-NPO-13676-1]	c 60	N79-20751	[NASA-CASE-NPO-14362-1]	c 32	N80-16261
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil			Acoustic driving of rotor			Apparatus for endoscopic examination		
[NASA-CASE-NPO-08835-1]	c 27	N78-33228	[NASA-CASE-NPO-14005-1]	c 71	N79-20827	[NASA-CASE-NPO-14092-1]	c 52	N80-16725
Hydrogen-fueled engine						Method of producing silicon		
[NASA-CASE-NPO-13763-1]	c 44	N78-33526				[NASA-CASE-NPO-14382-1]	c 31	N80-18231
Plural output optometric sample cell and analysis system								
[NASA-CASE-NPO-10233-1]	c 74	N78-33913						

High-speed data link for moderate distances and noisy environments [NASA-CASE-NPO-14152-1]	c 32	N80-18252	Base drive for paralleled inverter systems [NASA-CASE-NPO-14163-1]	c 33	N81-14220	Method and apparatus for producing concentric hollow spheres [NASA-CASE-NPO-14596-1]	c 31	N81-33319
Radio frequency arraying method for receivers [NASA-CASE-NPO-14328-1]	c 32	N80-18253	Low cost cryostat [NASA-CASE-NPO-14513-1]	c 35	N81-14287	Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress [NASA-CASE-NPO-14316-1]	c 33	N81-33404
High power RF coaxial switch [NASA-CASE-NPO-14229-1]	c 33	N80-18285	Power control for hot gas engines [NASA-CASE-NPO-14220-1]	c 37	N81-14318	PN lock indicator for dithered PN code tracking loop [NASA-CASE-NPO-14435-1]	c 33	N81-33405
Microwave power transmission beam safety system [NASA-CASE-NPO-14224-1]	c 33	N80-18287	Method and apparatus for fabricating improved solar cell modules [NASA-CASE-NPO-14416-1]	c 44	N81-14389	Optical gyroscope system [NASA-CASE-NPO-14258-1]	c 35	N81-33448
Viscosity measuring instrument [NASA-CASE-NPO-14501-1]	c 35	N80-18357	Viscoelastic cationic polymers containing the urethane linkage [NASA-CASE-NPO-10830-1]	c 27	N81-15104	Head for high speed spinner having a vacuum chuck [NASA-CASE-NPO-15227-1]	c 37	N81-33482
Frequency-scanning particle size spectrometer [NASA-CASE-NPO-13606-2]	c 35	N80-18364	Recovery of aluminum from composite propellants [NASA-CASE-NPO-14110-1]	c 28	N81-15119	Fluidized bed coal combustion reactor [NASA-CASE-NPO-14273-1]	c 25	N82-11144
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures [NASA-CASE-NPO-14254-1]	c 36	N80-18372	Continuous coal processing method [NASA-CASE-NPO-13758-2]	c 31	N81-15154	Scriber for silicon wafers [NASA-CASE-NPO-15539-1]	c 37	N82-11469
Method of fabricating a photovoltaic module of a substantially transparent construction [NASA-CASE-NPO-14303-1]	c 44	N80-18550	Method and apparatus for quadriphase-shift-key and linear phase modulation [NASA-CASE-NPO-14444-1]	c 33	N81-15192	Sewage sludge additive [NASA-CASE-NPO-13877-1]	c 45	N82-11634
Driver for solar cell I-V characteristic plots [NASA-CASE-NPO-14096-1]	c 44	N80-18551	Speed control device for a heavy duty shaft [NASA-CASE-NPO-14170-1]	c 37	N81-15364	Real-time multiple-look synthetic aperture radar processor for spacecraft applications [NASA-CASE-NPO-14054-1]	c 32	N82-12297
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[NASA-CASE-NPO-15625-1] c 76 N83-20789
- Stabilized lanthanum sulphur compounds
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
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- System and method for moving a probe to follow movements of tissue
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- Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
- Electronic system for high power load control
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- Particle analyzing method and apparatus
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- Hydrodesulfurization of chlorinated coal
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- Method and apparatus for producing gas-filled hollow spheres
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- Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
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- System for monitoring physical characteristics of fluids
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- Cloud cover sensor
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[NASA-CASE-NPO-15342-1] c 60 N83-32342
- Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- Sphere forming method and apparatus
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- Resonant isolator for maser amplifier
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- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Supercritical multicomponent solvent coal extraction
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- Spectrophotometer stabilized laser with line center offset frequency control
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- Centrifugal-reciprocating compressor
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- Process and apparatus for growing a crystal ribbon
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- Acoustic agglomeration methods and apparatus
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- Focal plane array optical proximity sensor
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- Optical system
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- Method for driving two-phase turbines with enhanced efficiency
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[NASA-CASE-NPO-16904-1-CU] c 32 N87-18691

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[NASA-CASE-NPO-16949-1-CU] c 62 N87-19021

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[NASA-CASE-NPO-16750-1-CU] c 74 N87-19064

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[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159

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[NASA-CASE-NPO-16256-1] c 32 N87-21207

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[NASA-CASE-NPO-15617-1] c 35 N87-21304

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[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591

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[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

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[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661

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[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

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[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

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[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

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[NASA-CASE-NPO-16433-1] c 36 N87-23961

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[NASA-CASE-NPO-15482-1] c 37 N87-23970

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[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

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[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

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[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567

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[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803

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[NASA-CASE-NPO-17108-1-CU] c 33 N87-27926

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[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

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[NASA-CASE-XLA-05087] c 14 N73-30391

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[NASA-CASE-LAR-10000] c 14 N73-30394

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[NASA-CASE-LAR-02743] c 14 N73-32324

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[NASA-CASE-NPO-10890] c 11 N73-12265

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[NASA-CASE-LAR-10634-1] c 37 N74-18123

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[NASA-CASE-XMF-08651] c 06 N71-11236
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[NASA-CASE-XMF-08655] c 06 N71-11239
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[NASA-CASE-XMF-08656] c 06 N71-11242
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[NASA-CASE-MSC-14472-1] c 43 N77-10584
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[NASA-CASE-GSC-11560-1] c 33 N74-20861
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[NASA-CASE-MSC-14649-1] c 33 N76-16331
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[NASA-CASE-NPO-10998-1] c 06 N73-32029

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[NASA-CASE-XMF-05882] c 35 N75-27329

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[NASA-CASE-XNP-01311] c 26 N75-29236

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[NASA-CASE-LAR-11465-1] c 37 N76-21554

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[NASA-CASE-MSC-18606-1] c 32 N82-11336

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[NASA-CASE-MSC-18430-1] c 37 N82-24491

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[NASA-CASE-MSC-18526-1] c 37 N82-24494

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

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[NASA-CASE-MSC-18532-1] c 32 N82-27558

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[NASA-CASE-MSC-18741-1] c 27 N82-29456

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[NASA-CASE-KSC-11097-1] c 27 N82-33520

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[NASA-CASE-MSC-18936-1] c 35 N83-29652

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[NASA-CASE-MSC-18791-1] c 37 N83-36482

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[NASA-CASE-MSC-16934-3] c 24 N84-16262

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[NASA-CASE-LAR-12644-1] c 37 N84-28084

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[NASA-CASE-MSC-18742-1] c 37 N82-26673

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[NASA-CASE-MSC-19672-1] c 38 N79-14398

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[NASA-CASE-MSC-20304-1] c 37 N82-31690

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[NASA-CASE-NPO-11036] c 15 N72-24522

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[NASA-CASE-XMS-10269] c 05 N71-24147

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[NASA-CASE-ARC-11154-1] c 25 N80-23383

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[NASA-CASE-ARC-11118-2] c 52 N81-14613

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[NASA-CASE-ARC-11245-1] c 28 N82-18401

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[NASA-CASE-ARC-11253-2] c 27 N82-24338

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[NASA-CASE-ARC-11252-1] c 25 N83-36118

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[NASA-CASE-ARC-11418-1] c 24 N84-11213

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[NASA-CASE-ARC-11402-1] c 27 N84-22744

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[NASA-CASE-ARC-11402-3] c 23 N86-21582

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[NASA-CASE-XMS-09352] c 09 N71-23316

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[NASA-CASE-GSC-12143-1] c 35 N77-32456

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[NASA-CASE-GSC-12032-2] c 43 N82-13465

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[NASA-CASE-ARC-10754-1] c 07 N75-24736

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[NASA-CASE-ARC-10755-2] c 34 N76-27517

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[NASA-CASE-MSC-16074-1] c 27 N80-26446

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[NASA-CASE-MSC-14733-1] c 54 N76-24900

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[NASA-CASE-FRC-10113-1] c 33 N80-26599

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[NASA-CASE-MSC-16000-1] c 37 N78-24544

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[NASA-CASE-MFS-10946-1] c 31 N79-21226

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[NASA-CASE-XMF-05757-1] c 31 N79-21227

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[NASA-CASE-LAR-11900-1] c 37 N79-14382

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[NASA-CASE-ARC-11444-1] c 05 N85-29947

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[NASA-CASE-MSC-20258-1] c 60 N84-28492

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[NASA-CASE-XMF-00701] c 09 N70-40272

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[NASA-CASE-HQN-10654-1] c 16 N73-13489

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[NASA-CASE-HQN-10790-1] c 36 N74-11313

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[NASA-CASE-XMS-01177] c 05 N71-19440

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[NASA-CASE-GSC-12022-2] c 44 N78-24609

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[NASA-CASE-XMF-02526-1] c 27 N79-21190

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[NASA-CASE-WLP-10055-1] c 35 N84-28015

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[NASA-CASE-XLE-00820] c 14 N71-16014

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[NASA-CASE-XGS-00824] c 15 N71-16078

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[NASA-CASE-XLE-02038] c 09 N71-16086

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[NASA-CASE-XNP-00826] c 03 N71-20895

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[NASA-CASE-XNP-02888] c 18 N71-21068

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[NASA-CASE-XGS-05441] c 10 N71-22962

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[NASA-CASE-XNP-03972] c 15 N71-23048

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[NASA-CASE-XNP-01107] c 10 N71-28859

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[NASA-CASE-FRC-10010] c 10 N71-24862

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[NASA-CASE-XMF-03934] c 09 N71-22985

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[NASA-CASE-XGS-04879] c 14 N71-20428

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[NASA-CASE-XNP-02340] c 23 N69-24332

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[NASA-CASE-NPO-10575] c 03 N72-25019

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[NASA-CASE-XMS-05307] c 09 N69-24330

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[NASA-CASE-MFS-20068] c 07 N71-27191

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[NASA-CASE-MFS-20453] c 15 N71-29133

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[NASA-CASE-MFS-22133-1] c 33 N74-26977

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[NASA-CASE-MFS-22283-1] c 37 N75-33395

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[NASA-CASE-MFS-22707-1] c 37 N76-15457

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[NASA-CASE-MFS-22458-1] c 44 N77-10635

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[NASA-CASE-MFS-23303-1] c 32 N77-18307

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[NASA-CASE-MFS-22234-1] c 32 N79-10264

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[NASA-CASE-MFS-23675-1] c 89 N79-10969

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[NASA-CASE-NPO-10234] c 06 N72-17094

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[NASA-CASE-ARC-10042-2] c 10 N72-11256

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[NASA-CASE-ARC-10192] c 09 N72-21245

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[NASA-CASE-HQN-10439] c 21 N72-21624

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[NASA-CASE-HQN-10844-1] c 36 N75-19653

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[NASA-CASE-HQN-10069] c 33 N75-27251

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[NASA-CASE-ARC-11051-1] c 27 N78-32260

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[NASA-CASE-ARC-11169-1] c 24 N79-24062

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[NASA-CASE-ARC-11052-1] c 37 N79-28551

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[NASA-CASE-ARC-11164-1] c 44 N83-34448

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[NASA-CASE-MFS-20125] c 16 N72-13437

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[NASA-CASE-XGS-04047-2] c 03 N72-11062

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[NASA-CASE-MSC-12607-1] c 32 N75-21485

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[NASA-CASE-LAR-10907-1] c 35 N76-29551

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[NASA-CASE-MFS-20586] c 15 N71-17686

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[NASA-CASE-LEW-12991-1] c 37 N81-24442

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[NASA-CASE-MSC-13407-1] c 10 N72-20225

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[NASA-CASE-MFS-20774] c 14 N73-19420

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[NASA-CASE-MFS-23315-1] c 76 N78-24950

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[NASA-CASE-NPO-14424-1] c 33 N80-32650

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[NASA-CASE-MSC-14339-1] c 05 N75-24716

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[NASA-CASE-LAR-11995-1] c 28 N77-10213

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[NASA-CASE-NPO-14109-1] c 28 N80-23471

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[NASA-CASE-MFS-21629] c 14 N72-22442

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[NASA-CASE-XGS-08269] c 23 N71-26206

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[NASA-CASE-MSC-18627-1] c 74 N82-30071

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[NASA-CASE-NPO-12127-1] c 91 N74-13130

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[NASA-CASE-LAR-11726-1] c 37 N76-27568

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[NASA-CASE-XNP-01458] c 04 N78-17031

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[NASA-CASE-MSC-11235] c 33 N78-17294

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[NASA-CASE-GSC-10135] c 33 N78-17296

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[NASA-CASE-ARC-10198] c 34 N78-17336

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[NASA-CASE-ARC-10199] c 34 N78-17337

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[NASA-CASE-MSC-11242] c 35 N78-17358

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[NASA-CASE-MFS-22597] c 36 N78-17366

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[NASA-CASE-NPO-10151] c 37 N78-17386

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[NASA-CASE-XGS-00829-1] c 44 N79-19447

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[NASA-CASE-MSC-11847-1] c 14 N72-11363

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[NASA-CASE-NPO-11018] c 08 N72-21200

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[NASA-CASE-NPO-12072] c 28 N72-22772

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[NASA-CASE-NPO-11078] c 09 N72-25262

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[NASA-CASE-NPO-13360-1] c 37 N75-25185

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[NASA-CASE-MSC-16370-1] c 35 N81-19427
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[NASA-CASE-XGS-04554] c 15 N69-39786
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[NASA-CASE-MSC-14903-1] c 27 N78-32256
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[NASA-CASE-MSC-14903-3] c 27 N80-24438
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Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
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[NASA-CASE-MFS-11279] c 16 N71-20400
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[NASA-CASE-XMF-00580] c 11 N70-35383
- Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
- Omnidirectional joint Patent
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[NASA-CASE-MSC-12397-1] c 05 N72-25119
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[NASA-CASE-XGS-09186] c 33 N78-17295
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[NASA-CASE-MSC-13054] c 54 N78-17677
- Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
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[NASA-CASE-XMS-04928] c 54 N78-17679
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[NASA-CASE-XMS-09653] c 54 N78-17680
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- Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
- Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
- Glass compositions with a high modulus of elasticity
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
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[NASA-CASE-HQN-10328-2] c 27 N82-29454
- United Aircraft Corp., Stratford, Conn.**
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[NASA-CASE-LAR-10900-1] c 37 N74-23064
- Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
- United Aircraft Corp., Sunnyvale, Calif.**
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
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[NASA-CASE-MFS-21462-1] c 33 N74-14935
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[NASA-CASE-XMS-13052] c 14 N71-20427
- Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

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Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
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[NASA-CASE-XMF-06884-1] c 20 N79-21123
- Fluid thrust control system
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[NASA-CASE-XMF-04592-1] c 20 N79-21125
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[NASA-CASE-MFS-23646-1] c 37 N79-22474
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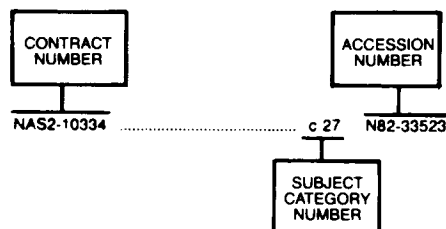
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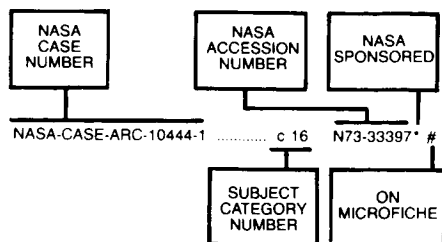
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 NASA-CASE-ARC-10136-1 c 09 N72-22202 * #
 NASA-CASE-ARC-10137-1 c 09 N71-28468 * #
 NASA-CASE-ARC-10138-1 c 14 N72-24477 * #
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 NASA-CASE-ARC-10160-1 c 23 N72-27728 * #
 NASA-CASE-ARC-10176-1 c 15 N72-21464 * #
 NASA-CASE-ARC-10178-1 c 09 N72-17152 * #
 NASA-CASE-ARC-10179-1 c 21 N72-22619 * #
 NASA-CASE-ARC-10180-1 c 27 N74-12814 * #
 NASA-CASE-ARC-10192 c 09 N72-21245 * #
 NASA-CASE-ARC-10194-1 c 23 N73-20741 * #
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 NASA-CASE-ARC-10198 c 34 N78-17336 * #
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NASA-CASE-ARC-10265-1	c 10	N72-28240 *	NASA-CASE-ARC-10970-1	c 36	N77-25501 *	NASA-CASE-ARC-11400-1	c 27	N84-14322 *
NASA-CASE-ARC-10266-1	c 33	N75-29318 *	NASA-CASE-ARC-10974-1	c 34	N77-27345 *	NASA-CASE-ARC-11402-1	c 27	N84-22744 *
NASA-CASE-ARC-10269-1	c 10	N72-16172 *	NASA-CASE-ARC-10975-1	c 33	N79-15245 *	NASA-CASE-ARC-11402-3	c 23	N86-21582 *
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NASA-CASE-ARC-10302-1	c 51	N74-15778 *	NASA-CASE-ARC-10979-1	c 09	N77-19076 *	NASA-CASE-ARC-11413-1	c 27	N85-21348 *
NASA-CASE-ARC-10304-1	c 18	N73-26572 *	NASA-CASE-ARC-10980-1	c 27	N80-23452 *	NASA-CASE-ARC-11414-1	c 37	N83-20152 *
NASA-CASE-ARC-10304-2	c 27	N74-27037 *	NASA-CASE-ARC-10981-1	c 37	N78-27425 *	NASA-CASE-ARC-11418-1	c 24	N84-11213 *
NASA-CASE-ARC-10308-1	c 06	N72-31141 *	NASA-CASE-ARC-10984-1	c 32	N77-24328 *	NASA-CASE-ARC-11421-2	c 27	N86-31726 *
NASA-CASE-ARC-10322-1	c 35	N76-18403 *	NASA-CASE-ARC-10985-1	c 52	N79-10724 *	NASA-CASE-ARC-11421-3	c 24	N86-25416 *
NASA-CASE-ARC-10325	c 06	N72-25147 *	NASA-CASE-ARC-10990-1	c 04	N82-16059 *	NASA-CASE-ARC-11422-1	c 35	N86-20751 *
NASA-CASE-ARC-10329-1	c 05	N73-26072 *	NASA-CASE-ARC-10991-1	c 25	N78-14104 *	NASA-CASE-ARC-11423-1	c 03	N84-33394 *
NASA-CASE-ARC-10330-1	c 09	N73-32112 *	NASA-CASE-ARC-10992-1	c 26	N78-32229 *	NASA-CASE-ARC-11424-1	c 27	N85-34281 *
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NASA-CASE-ARC-10345-1	c 15	N73-12488 *	NASA-CASE-ARC-10994-2	c 52	N79-26771 *	NASA-CASE-ARC-11426-1	c 09	N84-12193 *
NASA-CASE-ARC-10348-1	c 33	N75-19518 *	NASA-CASE-ARC-11007-1	c 52	N77-14736 *	NASA-CASE-ARC-11427-1	c 24	N86-19380 *
NASA-CASE-ARC-10362-1	c 14	N73-32326 *	NASA-CASE-ARC-11008-1	c 27	N78-31232 *	NASA-CASE-ARC-11427-2	c 27	N86-27451 *
NASA-CASE-ARC-10364-2	c 33	N75-25041 *	NASA-CASE-ARC-11031-1	c 52	N81-29763 *	NASA-CASE-ARC-11428-1	c 23	N86-19376 *
NASA-CASE-ARC-10364-3	c 33	N75-19520 *	NASA-CASE-ARC-11035-1	c 52	N79-18580 *	NASA-CASE-ARC-11428-2	c 27	N87-16909 *
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NASA-CASE-ARC-10441-1	c 35	N74-15126 *	NASA-CASE-ARC-11039-1	c 74	N78-32854 *	NASA-CASE-ARC-11429-2-CU	c 27	N87-22845 *
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NASA-CASE-ARC-10443-1	c 14	N73-20477 *	NASA-CASE-ARC-11040-2	c 24	N78-27184 *	NASA-CASE-ARC-11429-4CU	c 27	N87-15304 *
NASA-CASE-ARC-10444-1	c 16	N73-33397 *	NASA-CASE-ARC-11042-1	c 24	N78-14096 *	NASA-CASE-ARC-11444-1	c 05	N85-29947 *
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NASA-CASE-ARC-10466-1	c 60	N75-13539 *	NASA-CASE-ARC-11059-1	c 54	N78-32721 *	NASA-CASE-ARC-11525-1	c 37	N86-27629 *
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NASA-CASE-ARC-10516-1	c 70	N74-21300 *	NASA-CASE-ARC-11104-1	c 15	N80-14107 *	NASA-CASE-ARC-11543-1	c 54	N86-28620 *
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NASA-CASE-ARC-10598-1	c 75	N74-30156 *	NASA-CASE-ARC-11118-2	c 52	N81-14613 *	NASA-CASE-ARC-11616-1	c 54	N86-28618 *
NASA-CASE-ARC-10599-1	c 05	N73-26071 *	NASA-CASE-ARC-11120-1	c 52	N80-18691 *	NASA-CASE-ARC-11620-1	c 37	N87-25573 *
NASA-CASE-ARC-10631-1	c 74	N76-20958 *	NASA-CASE-ARC-11121-1	c 25	N79-14169 *	NASA-CASE-ARC-11622-1	c 44	N86-21982 *
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NASA-CASE-ARC-10710-1	c 09	N75-12969 *	NASA-CASE-ARC-11169-1	c 24	N79-24062 *	NASA-CASE-ARC-11643-1-SB	c 23	N87-23698 *
NASA-CASE-ARC-10711-2	c 33	N76-21390 *	NASA-CASE-ARC-11170-1	c 27	N79-11215 *	NASA-CASE-ARC-11646-1	c 14	N87-25344 *
NASA-CASE-ARC-10712-1	c 07	N74-33218 *	NASA-CASE-ARC-11174-1	c 24	N81-13999 *	NASA-CASE-ARC-11649-1-SB	c 27	N87-10205 *
NASA-CASE-ARC-10714-1	c 27	N76-15310 *	NASA-CASE-ARC-11176-1	c 27	N82-18389 *	NASA-CASE-ARC-11652-1	c 27	N87-23737 *
NASA-CASE-ARC-10716-1	c 35	N77-20399 *	NASA-CASE-ARC-11176-2	c 27	N81-27271 *	NASA-CASE-ARC-14408-1	c 27	N82-33523 *
NASA-CASE-ARC-10721-1	c 27	N76-22376 *	NASA-CASE-ARC-11241-1	c 25	N81-14016 *			
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NASA-CASE-ARC-10760-1	c 25	N76-22323 *	NASA-CASE-ARC-11251-1	c 37	N81-17433 *	NASA-CASE-ERC-10017	c 16	N71-15567 *
NASA-CASE-ARC-10761-1	c 07	N77-18154 *	NASA-CASE-ARC-11252-1	c 25	N83-36118 *	NASA-CASE-ERC-10019	c 16	N71-15551 *
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NASA-CASE-ARC-10813-1	c 27	N76-16230 *	NASA-CASE-ARC-11261-1	c 24	N83-25789 *	NASA-CASE-ERC-10041	c 08	N71-29138 *
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NASA-CASE-ARC-10816-1	c 35	N76-24525 *	NASA-CASE-ARC-11267-2	c 23	N82-28353 *	NASA-CASE-ERC-10045	c 15	N71-24910 *
NASA-CASE-ARC-10820-1	c 35	N76-19466 *	NASA-CASE-ARC-11310-1	c 27	N82-24339 *	NASA-CASE-ERC-10046	c 10	N71-18722 *
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NASA-CASE-ARC-10892-2	c 27	N79-14214 *	NASA-CASE-ARC-11314-1	c 54	N82-26987 *	NASA-CASE-ERC-10072	c 09	N70-11148 *
NASA-CASE-ARC-10896-1	c 35	N78-19465 *	NASA-CASE-ARC-11317-1	c 35	N83-34472 *	NASA-CASE-ERC-10073-1	c 24	N74-19769 *
NASA-CASE-ARC-10897-1	c 33	N77-31404 *	NASA-CASE-ARC-11321-1	c 27	N81-27272 *	NASA-CASE-ERC-10075-2	c 09	N72-22196 *
NASA-CASE-ARC-10898-1	c 35	N77-18417 *	NASA-CASE-ARC-11322-1	c 51	N83-28849 *	NASA-CASE-ERC-10075	c 09	N71-24800 *
NASA-CASE-ARC-10899-1	c 60	N77-19760 *	NASA-CASE-ARC-11325-1	c 37	N82-22496 *	NASA-CASE-ERC-10081	c 14	N72-28437 *
NASA-CASE-ARC-10900-1	c 35	N77-24454 *	NASA-CASE-ARC-11326-1	c 25	N83-33977 *	NASA-CASE-ERC-10087-2	c 14	N72-31446 *
NASA-CASE-ARC-10903-1	c 09	N78-18083 *	NASA-CASE-ARC-11349-1	c 37	N86-20797 *	NASA-CASE-ERC-10087	c 14	N71-27334 *
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NASA-CASE-ARC-10911-1	c 35	N77-20400 *	NASA-CASE-ARC-11361-1	c 35	N84-22934 *	NASA-CASE-ERC-10090	c 21	N71-24948 *
NASA-CASE-ARC-10912-1	c 34	N77-19353 *	NASA-CASE-ARC-11363-1	c 31	N87-16918 *	NASA-CASE-ERC-10097	c 15	N71-28465 *
NASA-CASE-ARC-10913-1	c 24	N78-15180 *	NASA-CASE-ARC-11367-1	c 33	N83-21238 *	NASA-CASE-ERC-10098	c 09	N71-28618 *
NASA-CASE-ARC-10915-2	c 27	N79-18052 *	NASA-CASE-ARC-11368-1	c 27	N83-31854 *	NASA-CASE-ERC-10100	c 09	N71-33519 *
NASA-CASE-ARC-10916-1	c 52	N78-10686 *	NASA-CASE-ARC-11368-2	c 27	N85-21347 *	NASA-CASE-ERC-10108	c 06	N72-21094 *
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NASA-CASE-ERC-10125	c 09	N71-24893 *	NASA-CASE-GSC-10064-1	c 10	N72-22235 *	NASA-CASE-GSC-11188-2	c 21	N73-19630 *
NASA-CASE-ERC-10138	c 26	N71-14354 *	NASA-CASE-GSC-10065-1	c 10	N71-27136 *	NASA-CASE-GSC-11188-3	c 74	N74-20008 *
NASA-CASE-ERC-10139	c 09	N72-17154 *	NASA-CASE-GSC-10072	c 18	N71-14014 *	NASA-CASE-GSC-11205-1	c 15	N73-25513 *
NASA-CASE-ERC-10150	c 14	N71-28992 *	NASA-CASE-GSC-10082-1	c 10	N72-20221 *	NASA-CASE-GSC-11211-1	c 03	N72-25020 *
NASA-CASE-ERC-10151	c 16	N71-29131 *	NASA-CASE-GSC-10083-1	c 30	N71-16090 *	NASA-CASE-GSC-11214-1	c 06	N73-13128 *
NASA-CASE-ERC-10174	c 14	N72-25409 *	NASA-CASE-GSC-10087-1	c 02	N71-19287 *	NASA-CASE-GSC-11215-1	c 09	N73-28083 *
NASA-CASE-ERC-10178	c 16	N71-24832 *	NASA-CASE-GSC-10087-2	c 21	N71-13958 *	NASA-CASE-GSC-11222-1	c 16	N73-32391 *
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NASA-CASE-ERC-10187	c 16	N69-31343 *	NASA-CASE-GSC-10097-1	c 08	N71-27210 *	NASA-CASE-GSC-11291-1	c 25	N72-33696 *
NASA-CASE-ERC-10208	c 15	N70-10867 *	NASA-CASE-GSC-10114-1	c 10	N71-27366 *	NASA-CASE-GSC-11296-1	c 23	N73-30666 *
NASA-CASE-ERC-10214	c 09	N72-31235 *	NASA-CASE-GSC-10118-1	c 07	N71-24621 *	NASA-CASE-GSC-11302-1	c 14	N73-13416 *
NASA-CASE-ERC-10222	c 09	N72-22199 *	NASA-CASE-GSC-10131-1	c 07	N71-24624 *	NASA-CASE-GSC-11304-1	c 06	N72-21105 *
NASA-CASE-ERC-10224-2	c 09	N73-27150 *	NASA-CASE-GSC-10135	c 33	N78-17296 *	NASA-CASE-GSC-11340-1	c 10	N72-33230 *
NASA-CASE-ERC-10224	c 09	N72-25261 *	NASA-CASE-GSC-10185-1	c 07	N72-12081 *	NASA-CASE-GSC-11353-1	c 74	N74-21304 *
NASA-CASE-ERC-10226-1	c 14	N73-16483 *	NASA-CASE-GSC-10186	c 08	N71-33110 *	NASA-CASE-GSC-11358-1	c 06	N73-26100 *
NASA-CASE-ERC-10248	c 14	N72-17323 *	NASA-CASE-GSC-10188-1	c 23	N71-24725 *	NASA-CASE-GSC-11367-1	c 44	N74-19692 *
NASA-CASE-ERC-10267	c 09	N72-23173 *	NASA-CASE-GSC-10216-1	c 23	N71-26722 *	NASA-CASE-GSC-11367	c 10	N71-26374 *
NASA-CASE-ERC-10268	c 09	N72-25252 *	NASA-CASE-GSC-10218-1	c 15	N72-21465 *	NASA-CASE-GSC-11368-1	c 09	N73-32108 *
NASA-CASE-ERC-10275	c 26	N72-25680 *	NASA-CASE-GSC-10220-1	c 07	N71-27233 *	NASA-CASE-GSC-11394-1	c 09	N73-32109 *
NASA-CASE-ERC-10276	c 14	N73-26432 *	NASA-CASE-GSC-10221-1	c 09	N72-23171 *	NASA-CASE-GSC-11425-1	c 76	N74-20329 *
NASA-CASE-ERC-10283	c 16	N72-25485 *	NASA-CASE-GSC-10225-1	c 06	N73-27086 *	NASA-CASE-GSC-11425-2	c 76	N75-25730 *
NASA-CASE-ERC-10285	c 10	N73-16206 *	NASA-CASE-GSC-10299-1	c 09	N71-24804 *	NASA-CASE-GSC-11428-1	c 32	N74-20864 *
NASA-CASE-ERC-10292	c 14	N72-25410 *	NASA-CASE-GSC-10303	c 15	N72-22487 *	NASA-CASE-GSC-11434-1	c 34	N74-27859 *
NASA-CASE-ERC-10307	c 08	N72-21198 *	NASA-CASE-GSC-10306-1	c 15	N71-24694 *	NASA-CASE-GSC-11444-1	c 14	N73-28490 *
NASA-CASE-ERC-10324	c 07	N72-25173 *	NASA-CASE-GSC-10344-1	c 03	N72-27053 *	NASA-CASE-GSC-11445-1	c 31	N74-27902 *
NASA-CASE-ERC-10325	c 15	N72-25457 *	NASA-CASE-GSC-10349-1	c 44	N82-24645 *	NASA-CASE-GSC-11446-1	c 33	N74-20860 *
NASA-CASE-ERC-10338	c 04	N72-33072 *	NASA-CASE-GSC-10350-1	c 44	N82-24642 *	NASA-CASE-GSC-11479-1	c 35	N74-28097 *
NASA-CASE-ERC-10339-1	c 18	N73-30532 *	NASA-CASE-GSC-10361-1	c 18	N72-23581 *	NASA-CASE-GSC-11487-1	c 14	N73-30393 *
NASA-CASE-ERC-10350	c 14	N73-20474 *	NASA-CASE-GSC-10366-1	c 10	N71-18772 *	NASA-CASE-GSC-11492-1	c 35	N74-26949 *
NASA-CASE-ERC-10363	c 18	N72-25541 *	NASA-CASE-GSC-10373-1	c 07	N71-19773 *	NASA-CASE-GSC-11513-1	c 33	N74-20862 *
NASA-CASE-ERC-10364	c 18	N72-25540 *	NASA-CASE-GSC-10376-1	c 14	N71-27407 *	NASA-CASE-GSC-11514-1	c 03	N72-24037 *
NASA-CASE-ERC-10365-1	c 31	N73-32749 *	NASA-CASE-GSC-10390-1	c 07	N72-11149 *	NASA-CASE-GSC-11531-1	c 52	N74-27566 *
NASA-CASE-ERC-10392	c 21	N73-14692 *	NASA-CASE-GSC-10413	c 10	N71-26531 *	NASA-CASE-GSC-11533-1	c 14	N73-13435 *
NASA-CASE-ERC-10403-1	c 10	N73-26228 *	NASA-CASE-GSC-10441-1	c 14	N71-27325 *	NASA-CASE-GSC-11551-1	c 37	N76-18459 *
NASA-CASE-ERC-10412-1	c 09	N73-12211 *	NASA-CASE-GSC-10452	c 07	N71-12396 *	NASA-CASE-GSC-11553-1	c 35	N74-15831 *
NASA-CASE-ERC-10419-1	c 03	N75-30132 *	NASA-CASE-GSC-10487-1	c 03	N71-24719 *	NASA-CASE-GSC-11560-1	c 33	N74-20861 *
NASA-CASE-ERC-10439	c 02	N73-19004 *	NASA-CASE-GSC-10503-1	c 14	N72-20381 *	NASA-CASE-GSC-11569-1	c 89	N74-30886 *
NASA-CASE-ERC-10468	c 09	N72-20206 *	NASA-CASE-GSC-10514-1	c 14	N72-20379 *	NASA-CASE-GSC-11571-1	c 36	N77-25499 *
NASA-CASE-ERC-10552	c 09	N71-12539 *	NASA-CASE-GSC-10518-1	c 15	N72-22489 *	NASA-CASE-GSC-11577-1	c 37	N75-15992 *
NASA-CASE-ERC-11020	c 14	N71-26774 *	NASA-CASE-GSC-10553-1	c 07	N71-19854 *	NASA-CASE-GSC-11577-3	c 24	N79-25143 *
NASA-CASE-FRC-10005	c 15	N71-26145 *	NASA-CASE-GSC-10554-1	c 08	N71-29033 *	NASA-CASE-GSC-11582-1	c 33	N75-19517 *
NASA-CASE-FRC-10010	c 10	N71-24862 *	NASA-CASE-GSC-10555-1	c 21	N71-27324 *	NASA-CASE-GSC-11600-1	c 35	N74-21019 *
NASA-CASE-FRC-10012	c 14	N72-17329 *	NASA-CASE-GSC-10556-1	c 31	N71-26537 *	NASA-CASE-GSC-11602-1	c 33	N74-21850 *
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NASA-CASE-FRC-10036	c 09	N72-22200 *	NASA-CASE-GSC-10590-1	c 31	N73-14853 *	NASA-CASE-GSC-11741-1	c 32	N75-24981 *
NASA-CASE-FRC-10038	c 15	N72-20444 *	NASA-CASE-GSC-10607-1	c 15	N72-20442 *	NASA-CASE-GSC-11742-1	c 33	N75-26243 *
NASA-CASE-FRC-10049-1	c 04	N74-13420 *	NASA-CASE-GSC-10614-1	c 09	N72-11224 *	NASA-CASE-GSC-11744-1	c 36	N75-19654 *
NASA-CASE-FRC-10051-1	c 35	N74-13129 *	NASA-CASE-GSC-10640-1	c 28	N72-18766 *	NASA-CASE-GSC-11746-1	c 77	N75-20140 *
NASA-CASE-FRC-10053	c 14	N70-35587 *	NASA-CASE-GSC-10656-1	c 09	N72-25249 *	NASA-CASE-GSC-11752-1	c 33	N75-19516 *
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NASA-CASE-FRC-10063	c 01	N71-12217 *	NASA-CASE-GSC-10668-1	c 07	N71-28430 *	NASA-CASE-GSC-11782-1	c 33	N75-19516 *
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NASA-CASE-FRC-10081-1	c 37	N77-14477 *	NASA-CASE-GSC-10700	c 23	N71-30027 *	NASA-CASE-GSC-11789-1	c 33	N77-26396 *
NASA-CASE-FRC-10090-1	c 33	N78-18308 *	NASA-CASE-GSC-10709-1	c 28	N71-25213 *	NASA-CASE-GSC-11824-1	c 35	N77-27331 *
NASA-CASE-FRC-10092-1	c 05	N79-12061 *	NASA-CASE-GSC-10710-1	c 28	N71-27094 *	NASA-CASE-GSC-11829-1	c 60	N77-14751 *
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NASA-CASE-FRC-11005-1	c 06	N82-16075 *	NASA-CASE-GSC-10835-1	c 09	N73-32305 *	NASA-CASE-GSC-11862-1	c 17	N76-22245 *
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NASA-CASE-FRC-11014-1	c 33	N82-18494 *	NASA-CASE-GSC-10890-1	c 10	N71-26626 *	NASA-CASE-GSC-11889-1	c 35	N76-15433 *
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NASA-CASE-FRC-11025-1	c 33	N82-24417 *	NASA-CASE-GSC-10903-1	c 15	N72-22491 *	NASA-CASE-GSC-11893-1	c 35	N76-15436 *
NASA-CASE-FRC-11026-1	c 24	N82-24296 *	NASA-CASE-GSC-10913	c 21	N72-21637 *	NASA-CASE-GSC-11895-1	c 32	N77-30309 *
NASA-CASE-FRC-11029-1	c 06	N81-17057 *	NASA-CASE-GSC-10945-1	c 07	N71-28965 *	NASA-CASE-GSC-11898-1	c 38	N77-17495 *
NASA-CASE-FRC-11041-1	c 33	N82-18493 *	NASA-CASE-GSC-10949-1	c 08	N73-13187 *	NASA-CASE-GSC-11902-1	c 32	N74-20863 *
NASA-CASE-FRC-11042-1	c 60	N82-24839 *	NASA-CASE-GSC-10975-1	c 37	N75-26371 *	NASA-CASE-GSC-11909	c 51	N76-29891 *
NASA-CASE-FRC-11043-1	c 06	N83-33882 *	NASA-CASE-GSC-10984-1	c 09	N73-26195 *	NASA-CASE-GSC-11917-2	c 33	N76-27472 *
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NASA-CASE-FRC-11055-1	c 33	N80-29583 *	NASA-CASE-GSC-11018-1	c 07	N73-28013 *	NASA-CASE-GSC-11960-1	c 33	N77-10429 *
NASA-CASE-FRC-11058-1	c 85	N82-32288 *	NASA-CASE-GSC-11046-1	c 37	N77-27400 *	NASA-CASE-GSC-11963-1	c 32	N76-15329 *
NASA-CASE-FRC-11062-1	c 71	N82-16800 *	NASA-CASE-GSC-11063-1	c 14	N73-28489 *	NASA-CASE-GSC-11968-1	c 37	N77-19458 *
NASA-CASE-FRC-11065-1	c 05	N83-19737 *	NASA-CASE-GSC-11074-1	c 02	N73-13008 *	NASA-CASE-GSC-11974-1	c 37	N77-19458 *
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NASA-CASE-FRC-11072-1	c 05	N83-27975 *	NASA-CASE-GSC-11079-1	c 04	N73-27052 *	NASA-CASE-GSC-11976-1	c 37	N77-17464 *
NASA-CASE-GSC-10007	c 18	N71-16046 *	NASA-CASE-GSC-11092-2	c 14	N72-10375 *	NASA-CASE-GSC-11978-1	c 74	N77-28932 *
NASA-CASE-GSC-10017-1	c 44	N82-24643 *	NASA-CASE-GSC-11095-1	c 09	N72-25253 *	NASA-CASE-GSC-11989-1	c 34	N77-32413 *
NASA-CASE-GSC-10018-1	c 44	N82-24644 *	NASA-CASE-GSC-11126-1	c 09	N75-24758 *	NASA-CASE-GSC-11998-1	c 74	N78-18905 *
NASA-CASE-GSC-10019-1	c 44	N82-24641 *	NASA-CASE-GSC-11127-1	c 23	N71-15688 *	NASA-CASE-GSC-12010-1	c 32	N77-30308 *
NASA-CASE-GSC-10021-1	c 09	N71-24595 *	NASA-CASE-GSC-11133-1	c 09	N71-27016 *	NASA-CASE-GSC-12017-1	c 33	N77-14334 *
			NASA-CASE-GSC-11139	c 15	N73-30457 *	NASA-CASE-GSC-12022-1	c 44	N76-28635 *
			NASA-CASE-GSC-11163-1	c 15	N73-32360 *	NASA-CASE-GSC-12022-2	c 44	N78-24609 *

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NASA-CASE-GSC-12030-1	c 44	N78-24608 *	NASA-CASE-GSC-12645-1	c 33	N84-16454 *	NASA-CASE-KSC-10397	c 08	N72-25206 *
NASA-CASE-GSC-12032-2	c 43	N82-13465 *	NASA-CASE-GSC-12646-1	c 33	N83-34191 *	NASA-CASE-KSC-10513	c 15	N72-25453 *
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NASA-CASE-GSC-12046-1	c 52	N79-14750 *	NASA-CASE-GSC-12682-1	c 35	N84-33765 *	NASA-CASE-KSC-10595	c 08	N73-12176 *
NASA-CASE-GSC-12053-1	c 32	N77-28346 *	NASA-CASE-GSC-12683-1	c 74	N83-36898 *	NASA-CASE-KSC-10615	c 15	N73-12486 *
NASA-CASE-GSC-12058-1	c 74	N77-26942 *	NASA-CASE-GSC-12686-1	c 27	N83-34039 *	NASA-CASE-KSC-10622-1	c 31	N72-21893 * #
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NASA-CASE-GSC-12075-1	c 32	N77-31350 *	NASA-CASE-GSC-12726-1	c 37	N83-34323 *	NASA-CASE-KSC-10639	c 15	N73-26472 *
NASA-CASE-GSC-12077-1	c 35	N77-24455 *	NASA-CASE-GSC-12756-1	c 74	N84-23248 *	NASA-CASE-KSC-10644	c 09	N72-27227 *
NASA-CASE-GSC-12081-2	c 52	N82-22875 *	NASA-CASE-GSC-12761-1	c 74	N86-32266 *	NASA-CASE-KSC-10647-1	c 10	N72-31273 *
NASA-CASE-GSC-12082-1	c 54	N76-22914 *	NASA-CASE-GSC-12762-1	c 37	N84-28083 *	NASA-CASE-KSC-10654-1	c 07	N73-30115 *
NASA-CASE-GSC-12082-2	c 52	N81-25661 *	NASA-CASE-GSC-12770-1	c 25	N83-29324 *	NASA-CASE-KSC-10698	c 07	N73-20175 *
NASA-CASE-GSC-12083-1	c 73	N78-32848 *	NASA-CASE-GSC-12771-1	c 34	N84-14461 *	NASA-CASE-KSC-10723-1	c 37	N75-13265 *
NASA-CASE-GSC-12088-1	c 74	N78-13874 *	NASA-CASE-GSC-12772-2	c 33	N87-23904 *	NASA-CASE-KSC-10728-1	c 14	N73-32319 *
NASA-CASE-GSC-12110-1	c 27	N77-32308 *	NASA-CASE-GSC-12782-1	c 33	N83-13360 * #	NASA-CASE-KSC-10729-1	c 09	N73-32110 *
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NASA-CASE-GSC-12145-1	c 33	N78-32339 *	NASA-CASE-GSC-12808-1	c 25	N85-21279 *	NASA-CASE-KSC-10782-1	c 33	N75-30431 *
NASA-CASE-GSC-12146-1	c 33	N78-32340 *	NASA-CASE-GSC-12812-1	c 34	N83-35307 *	NASA-CASE-KSC-10807-1	c 33	N75-26246 *
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NASA-CASE-GSC-12148-1	c 32	N79-20296 *	NASA-CASE-GSC-12817-1	c 33	N85-29146 *	NASA-CASE-KSC-10849-1	c 52	N77-14738 *
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NASA-CASE-GSC-12168-1	c 31	N79-17029 *	NASA-CASE-GSC-12849-1	c 74	N86-26190 *	NASA-CASE-KSC-11008-1	c 33	N79-22373 *
NASA-CASE-GSC-12171-1	c 33	N79-28416 *	NASA-CASE-GSC-12851-1	c 35	N85-30281 *	NASA-CASE-KSC-11010-1	c 74	N79-12890 *
NASA-CASE-GSC-12173-1	c 51	N79-10694 *	NASA-CASE-GSC-12880-1	c 26	N86-32550 *	NASA-CASE-KSC-11018-1	c 33	N79-10337 *
NASA-CASE-GSC-12190-1	c 33	N79-12321 *	NASA-CASE-GSC-12883-1	c 27	N85-29044 *	NASA-CASE-KSC-11023-1	c 32	N79-23310 *
NASA-CASE-GSC-12191-1	c 31	N80-32583 *	NASA-CASE-GSC-12892-1	c 32	N85-20226 * #	NASA-CASE-KSC-11025-1	c 32	N83-13323 *
NASA-CASE-GSC-12194-2	c 20	N82-18314 *	NASA-CASE-GSC-12897-1	c 74	N87-21679 *	NASA-CASE-KSC-11030-1	c 52	N77-25772 *
NASA-CASE-GSC-12207-1	c 24	N79-14156 *	NASA-CASE-GSC-12899-1	c 33	N86-20669 *	NASA-CASE-KSC-11031-1	c 33	N79-11315 *
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NASA-CASE-GSC-12225-1	c 74	N79-14891 *	NASA-CASE-GSC-12956-1	c 35	N87-14671 *	NASA-CASE-KSC-11042-1	c 09	N82-29330 *
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NASA-CASE-LAR-10620-1	c 09	N72-25255 *	NASA-CASE-LAR-11563-1	c 37	N77-23482 *	NASA-CASE-LAR-12363-2	c 33	N83-24763 *
NASA-CASE-LAR-10623-1	c 14	N73-30395 *	NASA-CASE-LAR-11570-1	c 34	N76-18364 *	NASA-CASE-LAR-12372-1	c 37	N82-18601 *
NASA-CASE-LAR-10626-1	c 19	N74-21015 *	NASA-CASE-LAR-11575-1	c 02	N76-16014 *	NASA-CASE-LAR-12375-1	c 32	N79-24203 *
NASA-CASE-LAR-10629-1	c 35	N75-33367 *	NASA-CASE-LAR-11607-1	c 32	N77-14292 *	NASA-CASE-LAR-12393-1	c 34	N83-34221 *
NASA-CASE-LAR-10634-1	c 37	N74-18123 *	NASA-CASE-LAR-11617-2	c 35	N78-32397 *	NASA-CASE-LAR-12396-1	c 02	N84-28732 *
NASA-CASE-LAR-10642-1	c 07	N74-31270 *	NASA-CASE-LAR-11645-1	c 02	N77-10001 *	NASA-CASE-LAR-12406-1	c 05	N81-26114 *
NASA-CASE-LAR-10668-1	c 06	N73-16106 *	NASA-CASE-LAR-11648-1	c 35	N77-14407 *	NASA-CASE-LAR-12412-1	c 08	N82-24205 *
NASA-CASE-LAR-10670-1	c 06	N73-30097 *	NASA-CASE-LAR-11649-1	c 51	N77-27677 *	NASA-CASE-LAR-12441-1	c 09	N82-23254 *
NASA-CASE-LAR-10670-2	c 15	N74-27360 *	NASA-CASE-LAR-11658-1	c 37	N77-14478 *	NASA-CASE-LAR-12458-1	c 44	N83-21503 *
NASA-CASE-LAR-10682-1	c 02	N73-26004 *	NASA-CASE-LAR-11667-1	c 52	N76-19785 *	NASA-CASE-LAR-12465-1	c 33	N82-26572 *
NASA-CASE-LAR-10686	c 14	N71-28935 *	NASA-CASE-LAR-11674-1	c 07	N76-18117 *	NASA-CASE-LAR-12468-1	c 08	N82-32373 *
NASA-CASE-LAR-10688-1	c 37	N74-21056 *	NASA-CASE-LAR-11675-1	c 45	N76-17656 *	NASA-CASE-LAR-12469-1	c 35	N83-21311 *
NASA-CASE-LAR-10717-1	c 21	N73-30641 *	NASA-CASE-LAR-11688-1	c 24	N82-26384 *	NASA-CASE-LAR-12471-1	c 52	N82-29862 *
NASA-CASE-LAR-10726-1	c 14	N73-20475 *	NASA-CASE-LAR-11690-1	c 35	N80-14371 *	NASA-CASE-LAR-12474-1	c 35	N82-26628 *
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NASA-CASE-LAR-10730-1	c 33	N74-10223 *	NASA-CASE-LAR-11709-1	c 37	N76-27567 *	NASA-CASE-LAR-12495-1	c 44	N83-28573 *
NASA-CASE-LAR-10739-1	c 14	N73-16484 *	NASA-CASE-LAR-11711-1	c 74	N78-17866 *	NASA-CASE-LAR-12513-1	c 44	N82-32841 *
NASA-CASE-LAR-10753-1	c 08	N74-30421 *	NASA-CASE-LAR-11726-1	c 37	N76-27568 *	NASA-CASE-LAR-12518-1	c 06	N86-27280 *
NASA-CASE-LAR-10756-1	c 32	N73-26910 *	NASA-CASE-LAR-11729-1	c 34	N79-12359 *	NASA-CASE-LAR-12520-1	c 51	N81-28698 *
NASA-CASE-LAR-10765-1	c 32	N73-20740 *	NASA-CASE-LAR-11745-1	c 32	N80-29539 *	NASA-CASE-LAR-12531-1	c 35	N83-29651 *
NASA-CASE-LAR-10773-3	c 51	N77-25769 *	NASA-CASE-LAR-11782-1	c 74	N77-20882 *	NASA-CASE-LAR-12532-1	c 09	N82-11088 *
NASA-CASE-LAR-10774	c 10	N71-13545 *	NASA-CASE-LAR-11797-1	c 05	N81-19087 *	NASA-CASE-LAR-12541-1	c 05	N84-22551 *
NASA-CASE-LAR-10776-1	c 02	N74-10034 *	NASA-CASE-LAR-11821-1	c 26	N80-28492 *	NASA-CASE-LAR-12552-1	c 35	N82-11431 *
NASA-CASE-LAR-10782-1	c 31	N74-14133 *	NASA-CASE-LAR-11825-1	c 35	N77-22449 *	NASA-CASE-LAR-12562-1	c 08	N81-26152 *
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NASA-CASE-LAR-10799-2	c 34	N76-17317 *	NASA-CASE-LAR-11828-1	c 27	N78-32261 *	NASA-CASE-LAR-12592-1	c 36	N82-13415 *
NASA-CASE-LAR-10800-1	c 33	N72-27959 *	NASA-CASE-LAR-11855-1	c 37	N81-14319 *	NASA-CASE-LAR-12595-1	c 33	N82-26571 *
NASA-CASE-LAR-10805-2	c 34	N77-18382 *	NASA-CASE-LAR-11859-1	c 35	N79-14349 *	NASA-CASE-LAR-12602-1	c 39	N83-32081 *
NASA-CASE-LAR-10806-1	c 35	N74-32877 *	NASA-CASE-LAR-11868-2	c 08	N79-14108 *	NASA-CASE-LAR-12615-1	c 05	N84-12154 *
NASA-CASE-LAR-10812-1	c 09	N74-17955 *	NASA-CASE-LAR-11869-1	c 74	N78-27904 *	NASA-CASE-LAR-12620-1	c 24	N82-32417 *
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NASA-CASE-LAR-10855-1	c 14	N73-13415 *	NASA-CASE-LAR-11898-1	c 24	N78-10724 *	NASA-CASE-LAR-12633-1	c 33	N82-24416 *
NASA-CASE-LAR-10862-1	c 35	N74-15092 *	NASA-CASE-LAR-11898-2	c 24	N78-17149 *	NASA-CASE-LAR-12638-1	c 04	N84-14132 *
NASA-CASE-LAR-10868-1	c 33	N74-11050 *	NASA-CASE-LAR-11900-1	c 37	N79-14382 *	NASA-CASE-LAR-12640-1	c 27	N82-11206 *
NASA-CASE-LAR-10894-1	c 18	N73-14584 *	NASA-CASE-LAR-11902-1	c 27	N78-17206 *	NASA-CASE-LAR-12642-1	c 27	N81-29229 *
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NASA-CASE-LAR-12650-1	c 52	N84-28388 *	NASA-CASE-LAR-13280-1	c 08	N87-20999 *	NASA-CASE-LEW-10770-1	c 28	N72-22770 *
NASA-CASE-LAR-12650-2	c 52	N84-28389 *	NASA-CASE-LAR-13286-1	c 02	N85-28922 *	NASA-CASE-LEW-10794-1	c 06	N72-17093 *
NASA-CASE-LAR-12654-1	c 33	N83-36357 *	NASA-CASE-LAR-13292-1	c 27	N86-24841 *	NASA-CASE-LEW-10805-1	c 15	N73-13465 *
NASA-CASE-LAR-12659-1	c 33	N82-26570 *	NASA-CASE-LAR-13294-1	c 35	N86-32696 *	NASA-CASE-LEW-10805-2	c 37	N74-13179 *
NASA-CASE-LAR-12686-1	c 35	N84-14491 *	NASA-CASE-LAR-13300-1CU	c 35	N86-32700 *	NASA-CASE-LEW-10805-3	c 26	N74-10521 *
NASA-CASE-LAR-12705-1	c 25	N82-26396 *	NASA-CASE-LAR-13306-1	c 82	N87-29372 *	NASA-CASE-LEW-10814-1	c 28	N70-35422 *
NASA-CASE-LAR-12706-1	c 35	N84-12444 *	NASA-CASE-LAR-13310-1	c 32	N87-14559 *	NASA-CASE-LEW-10835-1	c 28	N72-22771 *
NASA-CASE-LAR-12709-1	c 35	N82-28604 *	NASA-CASE-LAR-13316-1	c 27	N86-27450 *	NASA-CASE-LEW-10856-1	c 15	N72-22490 *
NASA-CASE-LAR-12719-1	c 44	N83-34449 *	NASA-CASE-LAR-13316-2	c 27	N87-14515 *	NASA-CASE-LEW-10874-1	c 17	N72-22535 *
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NASA-CASE-LAR-12738-2	c 37	N85-30335 *	NASA-CASE-LAR-13393-1	c 54	N87-29118 *	NASA-CASE-LEW-10981-1	c 35	N72-21018 *
NASA-CASE-LAR-12743-1	c 35	N84-28019 *	NASA-CASE-LAR-13407-1	c 33	N87-28831 *	NASA-CASE-LEW-11005-1	c 09	N72-21243 *
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NASA-CASE-LAR-12751-1	c 15	N84-16231 *	NASA-CASE-LAR-13435-1	c 37	N87-15464 *	NASA-CASE-LEW-11026-1	c 15	N73-33383 *
NASA-CASE-LAR-12772-1	c 33	N83-16626 *	NASA-CASE-LAR-13436-1CU	c 02	N87-23587 *	NASA-CASE-LEW-11058-1	c 20	N74-13502 *
NASA-CASE-LAR-12775-1	c 27	N83-28240 *	NASA-CASE-LAR-13438-1	c 31	N87-25496 *	NASA-CASE-LEW-11065-2	c 44	N76-14600 *
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NASA-CASE-LAR-12785-1	c 37	N84-16561 *	NASA-CASE-LAR-13444-1CU	c 27	N87-22847 *	NASA-CASE-LEW-11072-1	c 14	N73-24472 *
NASA-CASE-LAR-12786-1	c 37	N84-28085 *	NASA-CASE-LAR-13447-1	c 27	N86-26435 *	NASA-CASE-LEW-11072-2	c 35	N76-15434 *
NASA-CASE-LAR-12787-2	c 08	N85-19985 *	NASA-CASE-LAR-13448-1	c 27	N86-24840 *	NASA-CASE-LEW-11076-1	c 37	N74-21061 *
NASA-CASE-LAR-12801-1	c 37	N82-20544 *	NASA-CASE-LAR-13450-1	c 27	N87-28657 *	NASA-CASE-LEW-11076-2	c 37	N73-32921 *
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NASA-CASE-LAR-12870-1	c 36	N84-16542 *	NASA-CASE-LAR-13490-1	c 18	N87-14413 *	NASA-CASE-LEW-11159-1	c 14	N73-28488 *
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NASA-CASE-LAR-12884-1	c 18	N84-33450 *	NASA-CASE-LAR-13522-1SB	c 09	N87-25334 *	NASA-CASE-LEW-11180-1	c 25	N73-25760 *
NASA-CASE-LAR-12893-1	c 76	N85-30923 *	NASA-CASE-LAR-13528-1	c 25	N87-18626 *	NASA-CASE-LEW-11187-1	c 28	N73-19793 *
NASA-CASE-LAR-12894-1	c 27	N85-20125 *	NASA-CASE-LAR-13532-1	c 34	N86-26575 *	NASA-CASE-LEW-11188-1	c 02	N74-20646 *
NASA-CASE-LAR-12923-1	c 37	N84-12493 *	NASA-CASE-LAR-13542-1SB	c 25	N86-32540 *	NASA-CASE-LEW-11192-1	c 09	N73-13208 *
NASA-CASE-LAR-12931-1	c 27	N84-22747 *	NASA-CASE-LAR-13552-1CU	c 33	N87-18761 *	NASA-CASE-LEW-11227-1	c 73	N75-30876 *
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NASA-CASE-LAR-12950-1	c 09	N84-34448 *	NASA-CASE-LAR-13555-1	c 23	N86-32526 *	NASA-CASE-LEW-11267-1	c 17	N73-32414 *
NASA-CASE-LAR-12958-1	c 44	N84-23019 *	NASA-CASE-LAR-13560-1	c 35	N86-32701 *	NASA-CASE-LEW-11274-1	c 37	N75-21631 *
NASA-CASE-LAR-12966-1	c 35	N85-30282 *	NASA-CASE-LAR-13562-1	c 24	N87-18613 *	NASA-CASE-LEW-11286-1	c 07	N74-27490 *
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NASA-CASE-LAR-13006-1	c 17	N87-16863 *	NASA-CASE-LAR-13621-1	c 70	N87-25822 *	NASA-CASE-LEW-11388-2	c 37	N74-21055 *
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NASA-CASE-LAR-13040-1	c 37	N85-29286 *	NASA-CASE-LAR-13689-1NP	c 35	N87-23941 *	NASA-CASE-LEW-11531	c 15	N71-14932 *
NASA-CASE-LAR-13053-1	c 43	N83-29783 *	NASA-CASE-LAR-13697-1	c 05	N87-25321 *	NASA-CASE-LEW-11549-1	c 44	N77-19571 *
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NASA-CASE-LAR-13098-1	c 31	N86-19479 *	NASA-CASE-LEW-10106-1	c 28	N71-26642 *	NASA-CASE-LEW-11583-1	c 35	N79-17192 *
NASA-CASE-LAR-13100-1	c 37	N87-23982 *	NASA-CASE-LEW-10155-1	c 09	N71-29035 *	NASA-CASE-LEW-11593-1	c 20	N76-14190 *
NASA-CASE-LAR-13111-1CU	c 71	N87-21652 *	NASA-CASE-LEW-10199-1	c 27	N74-23125 *	NASA-CASE-LEW-11617-1	c 33	N74-10195 *
NASA-CASE-LAR-13113-1	c 31	N87-25492 *	NASA-CASE-LEW-10210-1	c 28	N71-26781 *	NASA-CASE-LEW-11632-2	c 35	N75-13213 *
NASA-CASE-LAR-13117-1	c 37	N86-25789 *	NASA-CASE-LEW-10219-1	c 18	N71-28729 *	NASA-CASE-LEW-11646-1	c 20	N74-31269 *
NASA-CASE-LAR-13118-2	c 27	N87-16907 *	NASA-CASE-LEW-10233	c 10	N71-27126 *	NASA-CASE-LEW-11669-1	c 05	N73-27062 *
NASA-CASE-LAR-13127-1	c 18	N87-24524 *	NASA-CASE-LEW-10250-1	c 22	N71-28759 *	NASA-CASE-LEW-11672-1	c 37	N74-27904 *
NASA-CASE-LAR-13134-2	c 07	N87-16828 *	NASA-CASE-LEW-10278-1	c 15	N71-28582 *	NASA-CASE-LEW-11676-1	c 37	N76-22541 *
NASA-CASE-LAR-13135-1	c 27	N86-19456 *	NASA-CASE-LEW-10281-1	c 14	N72-17327 *	NASA-CASE-LEW-11694-1	c 20	N75-18310 *
NASA-CASE-LAR-13150-1	c 24	N87-27742 *	NASA-CASE-LEW-10286-1	c 28	N71-28915 *	NASA-CASE-LEW-11694-2	c 37	N76-14461 *
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NASA-CASE-LAR-13153-1	c 71	N86-21276 *	NASA-CASE-LEW-10327	c 17	N71-33408 *	NASA-CASE-LEW-11696-2	c 26	N75-19408 *
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NASA-CASE-LAR-13169-1	c 37	N86-25791 *	NASA-CASE-LEW-10345-1	c 10	N71-25899 *	NASA-CASE-LEW-11855-1	c 07	N78-25090 *
NASA-CASE-LAR-13173-1	c 05	N87-14314 *	NASA-CASE-LEW-10359-2	c 33	N73-25952 *	NASA-CASE-LEW-11860-1	c 37	N76-18458 *
NASA-CASE-LAR-13181-1	c 31	N85-29083 *	NASA-CASE-LEW-10359	c 33	N72-25911 *	NASA-CASE-LEW-11866-1	c 72	N76-15860 *
NASA-CASE-LAR-13198-1	c 37	N87-23983 *	NASA-CASE-LEW-10364-1	c 09	N71-13522 *	NASA-CASE-LEW-11873-1	c 37	N79-22475 *
NASA-CASE-LAR-13202-1	c 33	N86-32626 *	NASA-CASE-LEW-10374-1	c 28	N73-13773 *	NASA-CASE-LEW-11876-1	c 20	N76-21276 *
NASA-CASE-LAR-13215-1	c 02	N87-14282 *	NASA-CASE-LEW-10387	c 09	N72-22201 *	NASA-CASE-LEW-11877-1	c 34	N78-27357 *
NASA-CASE-LAR-13220-1	c 34	N86-12547 *	NASA-CASE-LEW-10393-1	c 17	N71-15468 *	NASA-CASE-LEW-11881-1	c 33	N77-17354 *
NASA-CASE-LAR-13226-1	c 27	N85-34282 *	NASA-CASE-LEW-10424-2-2	c 18	N72-25539 *	NASA-CASE-LEW-11890-1	c 05	N79-24976 *
NASA-CASE-LAR-13230-1	c 24	N84-34571 *	NASA-CASE-LEW-10433-1	c 09	N72-22197 *	NASA-CASE-LEW-11915-1	c 35	N76-14431 *
NASA-CASE-LAR-13233-1	c 05	N84-33400 *	NASA-CASE-LEW-10436-1	c 17	N73-32415 *	NASA-CASE-LEW-11925-1	c 37	N75-13446 *
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NASA-CASE-LAR-13256-1	c 36	N86-29204 *	NASA-CASE-LEW-10533-1	c 15	N73-28515 *	NASA-CASE-LEW-11949-1	c 37	N76-29588 *
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NASA-CASE-LAR-13262-1	c 23	N85-28973 *	NASA-CASE-LEW-10689-1	c 28	N71-26173 *	NASA-CASE-LEW-11981-1	c 31	N78-17237 *
NASA-CASE-LAR-13268-1	c 35	N87-14669 *	NASA-CASE-LEW-10698-1	c 37	N74-21063 *	NASA-CASE-LEW-11981-2	c 34	N79-20336 *

NASA-CASE-LEW-12013-1	c 33	N79-10339 *	NASA-CASE-LEW-12876-2	c 27	N83-29392 *	NASA-CASE-LEW-13773-2	c 33	N86-20671 *
NASA-CASE-LEW-12039-1	c 44	N78-14625 *	NASA-CASE-LEW-12892-1	c 44	N83-14692 *	NASA-CASE-LEW-13822-1	c 44	N86-25874 *
NASA-CASE-LEW-12048-1	c 20	N77-20162 *	NASA-CASE-LEW-12905-1	c 26	N78-18183 *	NASA-CASE-LEW-13827-1	c 44	N85-21768 *
NASA-CASE-LEW-12050-1	c 35	N77-32454 *	NASA-CASE-LEW-12906-1	c 26	N77-32279 *	NASA-CASE-LEW-13828-1	c 24	N85-30027 *
NASA-CASE-LEW-12051-1	c 52	N75-33640 *	NASA-CASE-LEW-12907-2	c 07	N81-19115 *	NASA-CASE-LEW-13833-1	c 33	N85-21492 *
NASA-CASE-LEW-12053-1	c 27	N78-15276 *	NASA-CASE-LEW-12916-1	c 37	N78-17384 *	NASA-CASE-LEW-13834-1	c 26	N87-14482 *
NASA-CASE-LEW-12053-2	c 27	N79-28307 *	NASA-CASE-LEW-12917-1	c 07	N78-18067 *	NASA-CASE-LEW-13837-1	c 24	N84-22695 *
NASA-CASE-LEW-12078-1	c 35	N75-30503 *	NASA-CASE-LEW-12918-1	c 44	N81-24521 *	NASA-CASE-LEW-13837-2	c 24	N85-21267 *
NASA-CASE-LEW-12081-1	c 28	N78-24365 *	NASA-CASE-LEW-12919-1	c 24	N83-10117 *	NASA-CASE-LEW-13864-1	c 27	N86-19457 *
NASA-CASE-LEW-12081-2	c 28	N80-20402 *	NASA-CASE-LEW-12919-2	c 70	N84-28565 *	NASA-CASE-LEW-13881-1	c 20	N85-21256 *
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NASA-CASE-LEW-12082-1	c 20	N77-10148 *	NASA-CASE-LEW-12938-1	c 07	N82-32366 *	NASA-CASE-LEW-13914-1	c 37	N85-33489 *
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NASA-CASE-LEW-12094-1	c 76	N76-25049 *	NASA-CASE-LEW-12941-1	c 26	N83-10170 *	NASA-CASE-LEW-13923-1	c 26	N85-35267 *
NASA-CASE-LEW-12095-1	c 26	N78-18182 *	NASA-CASE-LEW-12950-1	c 34	N82-11399 *	NASA-CASE-LEW-13934-1	c 35	N83-35338 *
NASA-CASE-LEW-12118-1	c 24	N77-27188 *	NASA-CASE-LEW-12950-2	c 34	N89-29179 *	NASA-CASE-LEW-13935-1	c 33	N87-21234 *
NASA-CASE-LEW-12119-1	c 37	N80-28711 *	NASA-CASE-LEW-12955-1	c 52	N80-14684 *	NASA-CASE-LEW-13981-2	c 33	N86-21742 *
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NASA-CASE-LEW-12131-1	c 37	N79-18318 *	NASA-CASE-LEW-12972-1	c 44	N79-25481 *	NASA-CASE-LEW-14035-1	c 07	N84-24577 *
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NASA-CASE-LEW-12137-1	c 25	N78-10224 *	NASA-CASE-LEW-12990-1	c 07	N81-29129 *	NASA-CASE-LEW-14057-1	c 24	N85-35233 *
NASA-CASE-LEW-12159-1	c 44	N78-19599 *	NASA-CASE-LEW-12991-1	c 37	N81-24442 *	NASA-CASE-LEW-14072-1	c 27	N86-19458 *
NASA-CASE-LEW-12164-1	c 36	N77-32478 *	NASA-CASE-LEW-12995-1	c 37	N84-33808 *	NASA-CASE-LEW-14072-2	c 27	N86-32569 *
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NASA-CASE-LEW-12252-1	c 34	N79-13288 *	NASA-CASE-LEW-13107-1	c 52	N82-21785 *	NASA-CASE-LEW-14170-1	c 37	N86-25790 *
NASA-CASE-LEW-12253-1	c 74	N83-19596 *	NASA-CASE-LEW-13107-2	c 52	N84-23095 *	NASA-CASE-LEW-14177-1	c 44	N86-32875 *
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NASA-CASE-LEW-12830-1	c 07	N77-23106 *	NASA-CASE-LEW-13770-6	c 25	N85-30039 *	NASA-CASE-MFS-14971	c 15	N71-24984 *

NASA-CASE-MFS-15063	c 14	N72-25412 *	NASA-CASE-MFS-20944	c 15	N73-13466 *	NASA-CASE-MFS-22671-2	c 35	N77-17426 *
NASA-CASE-MFS-15162	c 14	N72-32452 *	NASA-CASE-MFS-20979-2	c 06	N73-32030 *	NASA-CASE-MFS-22707-1	c 37	N76-15457 *
NASA-CASE-MFS-15218-1	c 37	N77-19457 *	NASA-CASE-MFS-20979	c 06	N72-25151 *	NASA-CASE-MFS-22729-1	c 32	N76-21366 *
NASA-CASE-MFS-15429-1	c 18	N84-22609 *	NASA-CASE-MFS-20994-1	c 35	N75-12271 *	NASA-CASE-MFS-22734-1	c 18	N75-19329 *
NASA-CASE-MFS-15670-1	c 33	N82-33634 *	NASA-CASE-MFS-21010-1	c 05	N73-30078 *	NASA-CASE-MFS-22743-1	c 44	N76-22657 *
NASA-CASE-MFS-16570-1	c 05	N73-32013 *	NASA-CASE-MFS-21040-1	c 06	N73-30098 *	NASA-CASE-MFS-22744-1	c 44	N76-24696 *
NASA-CASE-MFS-16609-3	c 03	N76-32140 *	NASA-CASE-MFS-21042	c 07	N72-25171 *	NASA-CASE-MFS-22749-1	c 44	N76-14601 *
NASA-CASE-MFS-18100	c 15	N72-11390 *	NASA-CASE-MFS-21045-1	c 35	N75-15932 *	NASA-CASE-MFS-22758-1	c 70	N75-26789 *
NASA-CASE-MFS-18495	c 15	N72-11385 *	NASA-CASE-MFS-21046-1	c 14	N73-27377 *	NASA-CASE-MFS-22787-1	c 15	N77-10113 *
NASA-CASE-MFS-19193-1	c 37	N75-19686 *	NASA-CASE-MFS-21049-1	c 52	N74-27864 *	NASA-CASE-MFS-22905-1	c 19	N76-22284 *
NASA-CASE-MFS-19194-1	c 37	N76-14460 *	NASA-CASE-MFS-21077-1	c 24	N75-28135 *	NASA-CASE-MFS-22906-1	c 75	N78-27913 *
NASA-CASE-MFS-19220-1	c 20	N76-22296 *	NASA-CASE-MFS-21087-1	c 35	N74-17153 *	NASA-CASE-MFS-22907-1	c 26	N76-18257 *
NASA-CASE-MFS-19259-1	c 36	N78-14380 *	NASA-CASE-MFS-21108-1	c 34	N74-27861 *	NASA-CASE-MFS-22926-1	c 24	N77-27187 *
NASA-CASE-MFS-19287-1	c 34	N77-30399 *	NASA-CASE-MFS-21109-1	c 05	N73-27941 *	NASA-CASE-MFS-22938-1	c 34	N76-18374 *
NASA-CASE-MFS-19796-1	c 37	N86-32736 *	NASA-CASE-MFS-21115-1	c 54	N74-12779 *	NASA-CASE-MFS-22991-1	c 34	N77-10463 *
NASA-CASE-MFS-20011	c 18	N72-22566 *	NASA-CASE-MFS-21136-1	c 35	N74-18323 *	NASA-CASE-MFS-23001-1	c 76	N77-32919 *
NASA-CASE-MFS-20044	c 14	N71-28993 *	NASA-CASE-MFS-21163-1	c 54	N74-17853 *	NASA-CASE-MFS-23008-1	c 35	N78-18390 *
NASA-CASE-MFS-20068	c 07	N71-27191 *	NASA-CASE-MFS-21214-1	c 09	N73-30181 *	NASA-CASE-MFS-23047-1	c 37	N76-18454 *
NASA-CASE-MFS-20074	c 16	N71-15565 *	NASA-CASE-MFS-21233-1	c 38	N74-15395 *	NASA-CASE-MFS-23051-1	c 37	N79-10422 *
NASA-CASE-MFS-20075	c 09	N71-26133 *	NASA-CASE-MFS-21244-1	c 36	N75-15028 *	NASA-CASE-MFS-23052-2	c 74	N79-13855 *
NASA-CASE-MFS-20095	c 24	N72-11595 *	NASA-CASE-MFS-21309-1	c 37	N74-18125 *	NASA-CASE-MFS-23059-1	c 44	N76-27664 *
NASA-CASE-MFS-20096	c 14	N71-30026 *	NASA-CASE-MFS-21311-1	c 20	N76-21275 *	NASA-CASE-MFS-23062-1	c 37	N77-12402 *
NASA-CASE-MFS-20125	c 16	N72-13437 *	NASA-CASE-MFS-21362	c 11	N73-20267 *	NASA-CASE-MFS-23074-1	c 54	N77-21844 *
NASA-CASE-MFS-20130	c 28	N71-27585 *	NASA-CASE-MFS-21364-1	c 37	N74-18126 *	NASA-CASE-MFS-23088-1	c 37	N77-23483 *
NASA-CASE-MFS-20180	c 16	N72-12440 *	NASA-CASE-MFS-21372-1	c 74	N74-27866 *	NASA-CASE-MFS-23099-1	c 09	N76-23273 *
NASA-CASE-MFS-20207-1	c 09	N73-32107 *	NASA-CASE-MFS-21374-1	c 33	N74-12951 *	NASA-CASE-MFS-23114-1	c 38	N78-32447 *
NASA-CASE-MFS-20240	c 14	N71-26788 *	NASA-CASE-MFS-21394-1	c 34	N74-27744 *	NASA-CASE-MFS-23118-1	c 35	N77-31465 *
NASA-CASE-MFS-20242	c 14	N73-19421 *	NASA-CASE-MFS-21395-1	c 25	N74-26948 *	NASA-CASE-MFS-23167-1	c 44	N76-31667 *
NASA-CASE-MFS-20243	c 23	N73-13662 *	NASA-CASE-MFS-21415-1	c 52	N74-20728 *	NASA-CASE-MFS-23175-1	c 35	N77-30436 *
NASA-CASE-MFS-20249	c 15	N72-11386 *	NASA-CASE-MFS-21424-1	c 34	N74-27730 *	NASA-CASE-MFS-23178-1	c 35	N77-10493 *
NASA-CASE-MFS-20261	c 14	N71-27005 *	NASA-CASE-MFS-21433	c 09	N73-20232 *	NASA-CASE-MFS-23181-1	c 33	N77-17351 *
NASA-CASE-MFS-20284-1	c 52	N74-12778 *	NASA-CASE-MFS-21441-1	c 14	N73-30392 *	NASA-CASE-MFS-23194-1	c 35	N78-17357 *
NASA-CASE-MFS-20299	c 15	N72-11392 *	NASA-CASE-MFS-21455-1	c 35	N74-15146 *	NASA-CASE-MFS-23225-1	c 52	N77-14735 *
NASA-CASE-MFS-20317	c 15	N73-13463 *	NASA-CASE-MFS-21462-1	c 33	N74-14935 *	NASA-CASE-MFS-23250-1	c 35	N82-11432 *
NASA-CASE-MFS-20325	c 28	N71-27095 *	NASA-CASE-MFS-21465-1	c 10	N73-32145 *	NASA-CASE-MFS-23267-1	c 35	N77-20401 *
NASA-CASE-MFS-20332-2	c 05	N73-25125 *	NASA-CASE-MFS-21470-1	c 44	N74-19870 *	NASA-CASE-MFS-23270-1	c 44	N78-25531 *
NASA-CASE-MFS-20332	c 05	N72-20097 *	NASA-CASE-MFS-21481-1	c 37	N74-18127 *	NASA-CASE-MFS-23274-1	c 33	N78-13320 *
NASA-CASE-MFS-20333	c 09	N71-13486 *	NASA-CASE-MFS-21485-1	c 37	N74-25968 *	NASA-CASE-MFS-23280-1	c 33	N78-10376 *
NASA-CASE-MFS-20335-1	c 35	N74-10415 *	NASA-CASE-MFS-21488-1	c 14	N75-24794 *	NASA-CASE-MFS-23281-1	c 35	N77-22450 *
NASA-CASE-MFS-20355	c 33	N71-25353 *	NASA-CASE-MFS-21540-1	c 32	N74-17970 *	NASA-CASE-MFS-23284-1	c 37	N80-14397 *
NASA-CASE-MFS-20385	c 09	N71-24904 *	NASA-CASE-MFS-21556-1	c 35	N74-26945 *	NASA-CASE-MFS-23299-1	c 39	N77-28511 *
NASA-CASE-MFS-20386	c 21	N71-19212 *	NASA-CASE-MFS-21577-1	c 19	N74-29410 *	NASA-CASE-MFS-23303-1	c 32	N77-18307 *
NASA-CASE-MFS-20395	c 15	N71-24903 *	NASA-CASE-MFS-21606-1	c 37	N75-19685 *	NASA-CASE-MFS-23311-1	c 54	N78-17676 *
NASA-CASE-MFS-20400	c 31	N71-18611 *	NASA-CASE-MFS-21611-1	c 54	N75-12616 *	NASA-CASE-MFS-23312-1	c 33	N78-27326 *
NASA-CASE-MFS-20407	c 09	N73-19235 *	NASA-CASE-MFS-21616-1	c 33	N75-30429 *	NASA-CASE-MFS-23315-1	c 76	N78-24950 *
NASA-CASE-MFS-20408	c 18	N73-12604 *	NASA-CASE-MFS-21628-1	c 44	N75-32581 *	NASA-CASE-MFS-23345-1	c 27	N77-30237 *
NASA-CASE-MFS-20410	c 15	N71-19214 *	NASA-CASE-MFS-21628-2	c 44	N76-23675 *	NASA-CASE-MFS-23349-1	c 44	N79-23481 *
NASA-CASE-MFS-20413	c 15	N72-21463 *	NASA-CASE-MFS-21629	c 14	N72-22442 *	NASA-CASE-MFS-23362-1	c 47	N77-10753 *
NASA-CASE-MFS-20418	c 14	N73-24473 *	NASA-CASE-MFS-21660-1	c 35	N74-21017 *	NASA-CASE-MFS-23363-1	c 35	N78-32396 *
NASA-CASE-MFS-20423	c 15	N72-11388 *	NASA-CASE-MFS-21671-1	c 33	N74-22885 *	NASA-CASE-MFS-23405-1	c 26	N77-29260 *
NASA-CASE-MFS-20433	c 15	N72-28496 *	NASA-CASE-MFS-21672-1	c 74	N76-19935 *	NASA-CASE-MFS-23447-1	c 37	N79-11404 *
NASA-CASE-MFS-20434	c 11	N72-25288 *	NASA-CASE-MFS-21675-1	c 25	N74-33378 *	NASA-CASE-MFS-23460-1	c 12	N79-26075 *
NASA-CASE-MFS-20453	c 15	N71-29133 *	NASA-CASE-MFS-21680-1	c 18	N74-27397 *	NASA-CASE-MFS-23461-1	c 35	N79-10389 *
NASA-CASE-MFS-20482	c 15	N72-22492 *	NASA-CASE-MFS-21681-1	c 18	N74-27397 *	NASA-CASE-MFS-23506-1	c 24	N78-24290 *
NASA-CASE-MFS-20485	c 14	N72-11365 *	NASA-CASE-MFS-21698-1	c 33	N74-26732 *	NASA-CASE-MFS-23513-1	c 74	N79-11865 *
NASA-CASE-MFS-20486-2	c 27	N74-17283 *	NASA-CASE-MFS-21704-1	c 35	N75-25124 *	NASA-CASE-MFS-23515-1	c 44	N80-21828 *
NASA-CASE-MFS-20506-1	c 35	N75-12273 *	NASA-CASE-MFS-21728-1	c 35	N74-27865 *	NASA-CASE-MFS-23518-1	c 44	N79-11469 *
NASA-CASE-MFS-20509	c 11	N72-17183 *	NASA-CASE-MFS-21761-1	c 35	N75-15931 *	NASA-CASE-MFS-23518-3	c 44	N80-16452 *
NASA-CASE-MFS-20523	c 14	N72-27412 *	NASA-CASE-MFS-21846-1	c 37	N74-26976 *	NASA-CASE-MFS-23540-1	c 44	N79-26475 *
NASA-CASE-MFS-20546-2	c 14	N73-30389 *	NASA-CASE-MFS-21919-1	c 10	N73-25243 *	NASA-CASE-MFS-23541-1	c 76	N79-14906 *
NASA-CASE-MFS-20586	c 15	N71-17686 *	NASA-CASE-MFS-21931-1	c 37	N75-26372 *	NASA-CASE-MFS-23551-1	c 04	N76-26175 *
NASA-CASE-MFS-20589	c 25	N72-32688 *	NASA-CASE-MFS-22002-1	c 44	N76-16612 *	NASA-CASE-MFS-23564-1	c 15	N78-25119 *
NASA-CASE-MFS-20596	c 14	N72-17324 *	NASA-CASE-MFS-22022-1	c 37	N76-15460 *	NASA-CASE-MFS-23579-1	c 18	N79-11108 *
NASA-CASE-MFS-20607-1	c 37	N76-19436 *	NASA-CASE-MFS-22039-1	c 09	N75-12968 *	NASA-CASE-MFS-23620-1	c 37	N79-10421 *
NASA-CASE-MFS-20619	c 28	N72-11708 *	NASA-CASE-MFS-22040-1	c 35	N74-26946 *	NASA-CASE-MFS-23626-1	c 24	N80-26388 *
NASA-CASE-MFS-20620	c 11	N72-27262 *	NASA-CASE-MFS-22060-1	c 35	N75-29380 *	NASA-CASE-MFS-23642-1	c 20	N80-10278 *
NASA-CASE-MFS-20642	c 14	N72-21407 *	NASA-CASE-MFS-22073-1	c 33	N75-13139 *	NASA-CASE-MFS-23642-2	c 20	N78-27176 *
NASA-CASE-MFS-20645-1	c 37	N74-23070 *	NASA-CASE-MFS-22088-1	c 33	N75-15874 *	NASA-CASE-MFS-23646-1	c 37	N79-22474 *
NASA-CASE-MFS-20658-1	c 14	N73-30386 *	NASA-CASE-MFS-22102-1	c 54	N74-20725 *	NASA-CASE-MFS-23659-1	c 33	N79-17133 *
NASA-CASE-MFS-20673	c 14	N73-20476 *	NASA-CASE-MFS-22129-1	c 33	N75-18477 *	NASA-CASE-MFS-23674-1	c 24	N81-29163 *
NASA-CASE-MFS-20675	c 26	N73-26751 *	NASA-CASE-MFS-22133-1	c 33	N74-26977 *	NASA-CASE-MFS-23675-1	c 89	N79-10969 *
NASA-CASE-MFS-20698-2	c 15	N73-19457 *	NASA-CASE-MFS-22145-1	c 75	N75-13625 *	NASA-CASE-MFS-23696-1	c 54	N81-26718 *
NASA-CASE-MFS-20698	c 15	N72-20446 *	NASA-CASE-MFS-22145-2	c 75	N76-17951 *	NASA-CASE-MFS-23717-1	c 52	N81-25660 *
NASA-CASE-MFS-20710	c 11	N72-23215 *	NASA-CASE-MFS-22189-1	c 35	N75-19615 *	NASA-CASE-MFS-23720-1	c 43	N80-23711 *
NASA-CASE-MFS-20730-1	c 39	N74-13131 *	NASA-CASE-MFS-22208-1	c 33	N75-26244 *	NASA-CASE-MFS-23720-2	c 43	N80-14423 *
NASA-CASE-MFS-20757	c 09	N72-28225 *	NASA-CASE-MFS-22234-1	c 32	N79-10264 *	NASA-CASE-MFS-23720-3	c 43	N79-25443 *
NASA-CASE-MFS-20760	c 14	N72-33377 *	NASA-CASE-MFS-22283-1	c 37	N75-33395 *	NASA-CASE-MFS-23721-1	c 31	N79-28370 *
NASA-CASE-MFS-20761-1	c 44	N74-27519 *	NASA-CASE-MFS-22287-1	c 75	N76-14931 *	NASA-CASE-MFS-23725-1	c 43	N79-31706 *
NASA-CASE-MFS-20767-1	c 38	N74-15130 *	NASA-CASE-MFS-22323-1	c 37	N76-14463 *	NASA-CASE-MFS-23726-1	c 43	N79-26439 *
NASA-CASE-MFS-20774	c 14	N73-19420 *	NASA-CASE-MFS-22324-1	c 27	N75-27160 *	NASA-CASE-MFS-23727-1	c 44	N80-14473 *
NASA-CASE-MFS-20775-1	c 31	N75-12161 *	NASA-CASE-MFS-22342-1	c 33	N75-30428 *	NASA-CASE-MFS-23775-1	c 44	N82-16474 *
NASA-CASE-MFS-20809	c 23	N73-13660 *	NASA-CASE-MFS-22343-1	c 33	N74-34638 *	NASA-CASE-MFS-23776-1	c 33	N82-28545 *
NASA-CASE-MFS-20823-1	c 16	N73-30476 *	NASA-CASE-MFS-22355-1	c 23	N76-15268 *	NASA-CASE-MFS-23777-1	c 37	N80-32716 *
NASA-CASE-MFS-20829	c 12	N72-21310 *	NASA-CASE-MFS-22356-1	c 23	N75-30256 *	NASA-CASE-MFS-23816-1	c 26	N80-23419 *
NASA-CASE-MFS-20830	c 15	N71-30028 *	NASA-CASE-MFS-22409-2	c 74	N78-15880 *	NASA-CASE-MFS-23825-1	c 51	N81-32829 *
NASA-CASE-MFS-20831	c 28	N71-29153 *	NASA-CASE-MFS-22411-1	c 37	N74-21058 *	NASA-CASE-MFS-23828-1	c 33	N82-26569 *
NASA-CASE-MFS-20855-1	c 15	N77-10112 *	NASA-CASE-MFS-22458-1	c 44	N77-10635 *	NASA-CASE-MFS-23830-1	c 44	N82-24639 *
NASA-CASE-MFS-20855	c 15	N73-27405 *	NASA-CASE-MFS-22517-1	c 35	N76-18402 *	NASA-CASE-MFS-23845-1	c 33	N81-17348 *
NASA-CASE-MFS-20861-1	c 18	N73-32437 *	NASA-CASE-MFS-22537-1	c 35	N75-27328 *	NASA-CASE-MFS-23846-1	c 37	N82-32731 *
NASA-CASE-MFS-20863	c 31	N73-26876 *	NASA-CASE-MFS-22560-1	c 33	N77-14335 *	NASA-CASE-MFS-23862-1	c 48	N80-18667 *
NASA-CASE-MFS-20890	c 14	N72-22439 *	NASA-CASE-MFS-22562-1	c 44	N76-14595 *	NASA-CASE-MFS-23883-1	c 51	N80-16715 *
NASA-CASE-MFS-20916	c 14	N73-25460 *	NASA-CASE-MFS-22597	c 36	N78-17366 *	NASA-CASE-MFS-23923-1	c 35	N81-19426 *
NASA-CASE-MFS-20922-1	c 18	N74-22136 *	NASA-CASE-MFS-22631-1	c 66	N76-19888 *	NASA-CASE-MFS-23981-1	c 07	N83-20944 *
NASA-CASE-MFS-20922	c 31	N72-20840 *	NASA-CASE-MFS-22636-1	c 37	N76-22540 *	NASA-CASE-MFS-23988-1	c 33	N81-27395 *
NASA-CASE-MFS-20932-1	c 35	N75-19616 *	NASA-CASE-MFS-22649-1	c 37	N75-25186 *	NASA-CASE-MFS-24399-1	c 44	N81-24520 *
NASA-CASE-MFS-20935	c 09	N71-34212 *	NASA-CASE-MFS-22671-1	c 35	N75-21582 *	NASA-CASE-MFS-24368-3	c 33	N81-22280 *

NASA-CASE-MFS-25000-1	c 25	N81-19242 *	NASA-CASE-MFS-28122-1	c 72	N87-25829 *	NASA-CASE-MSC-12617-1	c 35	N76-29552 *
NASA-CASE-MFS-25050-1	c 71	N81-15767 *	NASA-CASE-MFS-28137-1	c 76	N87-19116 *	NASA-CASE-MSC-12618-1	c 74	N78-17865 *
NASA-CASE-MFS-25134-1	c 31	N83-31895 *	NASA-CASE-MFS-28139-1	c 29	N87-18679 *	NASA-CASE-MSC-12619-1	c 27	N79-12221 *
NASA-CASE-MFS-25139-1	c 34	N82-13376 *	NASA-CASE-MFS-28142-1	c 25	N87-18627 *	NASA-CASE-MSC-12631-1	c 24	N77-28225 *
NASA-CASE-MFS-25181-1	c 27	N82-24340 *	NASA-CASE-MFS-28144-1	c 76	N87-15004 *	NASA-CASE-MSC-12631-3	c 27	N81-14077 *
NASA-CASE-MFS-25208-1	c 33	N83-10345 *	NASA-CASE-MFS-28153-1	c 31	N86-32589 *	NASA-CASE-MSC-12640-1	c 74	N76-31998 *
NASA-CASE-MFS-25209-1	c 33	N83-35227 *	NASA-CASE-MFS-28161-1	c 37	N87-18817 *	NASA-CASE-MSC-12662-1	c 33	N79-12331 *
NASA-CASE-MFS-25211-2	c 33	N84-14423 *	NASA-CASE-MFS-28185-1	c 37	N87-25586 *	NASA-CASE-MSC-12709-1	c 33	N77-24375 *
NASA-CASE-MFS-25215-1	c 33	N83-31953 *	NASA-CASE-MFS-28217-1	c 34	N87-29769 *	NASA-CASE-MSC-12731-1	c 37	N78-25426 *
NASA-CASE-MFS-25242-1	c 35	N83-29650 *	NASA-CASE-MFS-29134-1	c 74	N87-17493 *	NASA-CASE-MSC-12737-1	c 24	N79-25142 *
NASA-CASE-MFS-25282-1	c 34	N83-19015 *	NASA-CASE-MFS-29149-1	c 33	N87-29737 *	NASA-CASE-MSC-12743-1	c 32	N79-10263 *
NASA-CASE-MFS-25287-1	c 44	N82-18686 *	NASA-CASE-MFS-29177-1	c 37	N87-25575 *	NASA-CASE-MSC-12745-1	c 33	N81-27397 *
NASA-CASE-MFS-25302-1	c 33	N83-28319 *	NASA-CASE-MFS-29207-1	c 74	N87-25843 *	NASA-CASE-MSC-13047-1	c 31	N71-25434 *
NASA-CASE-MFS-25302-2	c 33	N84-33660 *	NASA-CASE-MFS-29252-1	c 37	N87-25587 *	NASA-CASE-MSC-13054	c 54	N78-17677 *
NASA-CASE-MFS-25306-1	c 25	N83-13187 *				NASA-CASE-MSC-13110-1	c 08	N72-22163 *
NASA-CASE-MFS-25312-1	c 74	N83-17305 *	NASA-CASE-MSC-10954-1	c 54	N78-18761 *	NASA-CASE-MSC-13112	c 03	N71-11057 *
NASA-CASE-MFS-25315-1	c 36	N83-29680 *	NASA-CASE-MSC-10959	c 15	N71-26243 *	NASA-CASE-MSC-13140	c 05	N72-11085 *
NASA-CASE-MFS-25319-1	c 60	N85-33701 *	NASA-CASE-MSC-10960-1	c 03	N71-24718 *	NASA-CASE-MSC-13201-1	c 07	N71-28429 *
NASA-CASE-MFS-25323-1	c 33	N84-22886 *	NASA-CASE-MSC-10966	c 14	N71-19568 *	NASA-CASE-MSC-13276-1	c 14	N71-27058 *
NASA-CASE-MFS-25363-1	c 37	N82-12441 *	NASA-CASE-MSC-11010	c 15	N71-19485 *	NASA-CASE-MSC-13281	c 31	N72-18859 *
NASA-CASE-MFS-25403-1	c 18	N83-29303 *	NASA-CASE-MSC-11072	c 54	N74-32546 *	NASA-CASE-MSC-13282-1	c 05	N71-24729 *
NASA-CASE-MFS-25405-1	c 35	N84-22929 *	NASA-CASE-MSC-11235	c 33	N78-17294 *	NASA-CASE-MSC-13332-1	c 14	N72-21408 *
NASA-CASE-MFS-25426-1	c 25	N83-10126 *	NASA-CASE-MSC-11242	c 35	N78-17358 *	NASA-CASE-MSC-13335-1	c 06	N72-31140 *
NASA-CASE-MFS-25429-1	c 18	N86-20469 *	NASA-CASE-MSC-11253	c 05	N71-12343 *	NASA-CASE-MSC-13397-1	c 21	N72-25595 *
NASA-CASE-MFS-25430-1	c 33	N83-16453 *	NASA-CASE-MSC-11277	c 09	N71-29008 *	NASA-CASE-MSC-13401-1	c 10	N72-20225 *
NASA-CASE-MFS-25436-1	c 27	N83-36220 *	NASA-CASE-MSC-11561-1	c 05	N73-32014 *	NASA-CASE-MSC-13436-1	c 05	N73-32015 *
NASA-CASE-MFS-25477-1	c 33	N84-14424 *	NASA-CASE-MSC-11817-1	c 15	N71-26611 *	NASA-CASE-MSC-13492-1	c 10	N71-28860 *
NASA-CASE-MFS-25509-1	c 35	N83-24828 *	NASA-CASE-MSC-11847-1	c 14	N72-11363 *	NASA-CASE-MSC-13512-1	c 15	N72-22485 *
NASA-CASE-MFS-25510-1	c 37	N84-16560 *	NASA-CASE-MSC-11849-1	c 15	N72-22488 *	NASA-CASE-MSC-13530-2	c 23	N75-14834 *
NASA-CASE-MFS-25535-1	c 33	N81-12330 *	NASA-CASE-MSC-12033-1	c 09	N71-13531 *	NASA-CASE-MSC-13540-1	c 05	N72-33096 *
NASA-CASE-MFS-25535-2	c 33	N84-22885 *	NASA-CASE-MSC-12049	c 31	N71-16080 *	NASA-CASE-MSC-13587-1	c 15	N73-30459 *
NASA-CASE-MFS-25586-1	c 33	N82-11360 *	NASA-CASE-MSC-12052-1	c 15	N71-24599 *	NASA-CASE-MSC-13601-2	c 54	N75-27759 *
NASA-CASE-MFS-25607-1	c 33	N83-34190 *	NASA-CASE-MSC-12084-1	c 12	N71-17569 *	NASA-CASE-MSC-13604-1	c 05	N73-13114 *
NASA-CASE-MFS-25616-1	c 33	N84-16455 *	NASA-CASE-MSC-12086-1	c 05	N71-12345 *	NASA-CASE-MSC-13609-1	c 05	N72-25122 *
NASA-CASE-MFS-25631-1	c 34	N84-12406 *	NASA-CASE-MSC-12101	c 09	N71-18720 *	NASA-CASE-MSC-13648	c 05	N72-27103 *
NASA-CASE-MFS-25637-1	c 44	N85-21769 *	NASA-CASE-MSC-12105-1	c 14	N72-21409 *	NASA-CASE-MSC-13746-1	c 10	N73-32143 *
NASA-CASE-MFS-25641-1	c 72	N84-28575 *	NASA-CASE-MSC-12109	c 18	N71-26285 *	NASA-CASE-MSC-13789-1	c 11	N73-32152 *
NASA-CASE-MFS-25670-4	c 33	N84-22884 *	NASA-CASE-MSC-12111-1	c 02	N71-11039 *	NASA-CASE-MSC-13802-2	c 35	N76-15431 *
NASA-CASE-MFS-25678-1	c 37	N84-11497 *	NASA-CASE-MSC-12116-1	c 15	N71-17648 *	NASA-CASE-MSC-13855-1	c 35	N74-17885 *
NASA-CASE-MFS-25687-1	c 35	N84-22928 *	NASA-CASE-MSC-12121-1	c 15	N71-27147 *	NASA-CASE-MSC-13907-1	c 10	N73-26092 *
NASA-CASE-MFS-25707-1	c 35	N82-26631 *	NASA-CASE-MSC-12135-1	c 09	N71-12526 *	NASA-CASE-MSC-13912-1	c 32	N74-30524 *
NASA-CASE-MFS-25717-1	c 35	N84-33768 *	NASA-CASE-MSC-12139-1	c 28	N71-14058 *	NASA-CASE-MSC-13917-1	c 05	N72-15098 *
NASA-CASE-MFS-25721-1	c 25	N85-21280 *	NASA-CASE-MSC-12143-1	c 33	N72-17947 *	NASA-CASE-MSC-13932-1	c 62	N74-14920 *
NASA-CASE-MFS-25740-1	c 52	N84-11744 *	NASA-CASE-MSC-12146-1	c 07	N72-17109 *	NASA-CASE-MSC-13972-1	c 52	N74-10975 *
NASA-CASE-MFS-25750-1	c 32	N86-20647 *	NASA-CASE-MSC-12165-1	c 07	N71-33696 *	NASA-CASE-MSC-13999-1	c 52	N74-26626 *
NASA-CASE-MFS-25752-1	c 74	N86-21348 *	NASA-CASE-MSC-12168-1	c 09	N71-18600 *	NASA-CASE-MSC-14053-1	c 60	N74-12888 *
NASA-CASE-MFS-25754-1	c 35	N84-28018 *	NASA-CASE-MSC-12178-1	c 09	N71-13518 *	NASA-CASE-MSC-14065-1	c 32	N74-26654 *
NASA-CASE-MFS-25791-1	c 09	N84-27749 *	NASA-CASE-MSC-12205-1	c 07	N71-27056 *	NASA-CASE-MSC-14066-1	c 33	N74-27705 *
NASA-CASE-MFS-25807-2	c 37	N86-21850 *	NASA-CASE-MSC-12206-1	c 05	N71-17599 *	NASA-CASE-MSC-14070-1	c 32	N74-32598 *
NASA-CASE-MFS-25807	c 37	N83-20154 *	NASA-CASE-MSC-12209	c 09	N71-24842 *	NASA-CASE-MSC-14081-1	c 35	N74-27860 *
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NASA-CASE-MFS-25828-1	c 71	N84-28568 *	NASA-CASE-MSC-12233-1	c 15	N72-25454 *	NASA-CASE-MSC-14096-1	c 74	N74-15095 *
NASA-CASE-MFS-25833-1	c 35	N86-32698 *	NASA-CASE-MSC-12233-2	c 32	N73-13921 *	NASA-CASE-MSC-14129-1	c 33	N75-18479 *
NASA-CASE-MFS-25837-1	c 18	N85-29991 *	NASA-CASE-MSC-12239-1	c 52	N79-21750 *	NASA-CASE-MSC-14130-1	c 33	N74-32711 *
NASA-CASE-MFS-25842-2	c 37	N86-20788 *	NASA-CASE-MSC-12243-1	c 05	N71-24728 *	NASA-CASE-MSC-14131-1	c 33	N75-19515 *
NASA-CASE-MFS-25843-1	c 20	N83-17588 *	NASA-CASE-MSC-12259-1	c 07	N70-12616 *	NASA-CASE-MSC-14143-1	c 77	N75-20139 *
NASA-CASE-MFS-25852-1	c 33	N84-33661 *	NASA-CASE-MSC-12259-2	c 07	N72-33146 *	NASA-CASE-MSC-14180-1	c 52	N76-14757 *
NASA-CASE-MFS-25853-1	c 16	N84-27784 *	NASA-CASE-MSC-12279-1	c 15	N70-35679 *	NASA-CASE-MSC-14182-1	c 27	N76-14264 *
NASA-CASE-MFS-25854-1	c 33	N84-27975 *	NASA-CASE-MSC-12279	c 15	N72-17450 *	NASA-CASE-MSC-14187-1	c 35	N74-32879 *
NASA-CASE-MFS-25861-1	c 33	N85-22877 *	NASA-CASE-MSC-12280	c 27	N71-16348 *	NASA-CASE-MSC-14219-1	c 32	N74-27612 *
NASA-CASE-MFS-25862-1	c 27	N85-20126 *	NASA-CASE-MSC-12293-1	c 14	N72-27411 *	NASA-CASE-MSC-14240-1	c 33	N75-14957 *
NASA-CASE-MFS-25862-2	c 37	N84-33807 *	NASA-CASE-MSC-12297	c 14	N72-23457 *	NASA-CASE-MSC-14245-1	c 18	N75-27041 *
NASA-CASE-MFS-25868-1	c 33	N86-20670 *	NASA-CASE-MSC-12324-1	c 05	N72-22093 *	NASA-CASE-MSC-14270-1	c 27	N76-22377 *
NASA-CASE-MFS-25878-1	c 18	N84-27787 *	NASA-CASE-MSC-12327-1	c 35	N77-27368 *	NASA-CASE-MSC-14270-2	c 27	N76-23426 *
NASA-CASE-MFS-25905-2	c 31	N86-21718 *	NASA-CASE-MSC-12357	c 15	N73-12489 *	NASA-CASE-MSC-14273-1	c 34	N75-33342 *
NASA-CASE-MFS-25906-1	c 37	N86-20789 *	NASA-CASE-MSC-12363-1	c 14	N73-26431 *	NASA-CASE-MSC-14276-1	c 52	N77-14737 *
NASA-CASE-MFS-25907-1	c 37	N85-34401 *	NASA-CASE-MSC-12372-1	c 31	N72-25842 *	NASA-CASE-MSC-14331-1	c 27	N76-24405 *
NASA-CASE-MFS-25910-1	c 39	N86-20841 *	NASA-CASE-MSC-12389	c 33	N71-29052 *	NASA-CASE-MSC-14331-2	c 27	N78-17213 *
NASA-CASE-MFS-25942-1	c 74	N86-20124 *	NASA-CASE-MSC-12390	c 27	N71-29155 *	NASA-CASE-MSC-14331-3	c 27	N78-32262 *
NASA-CASE-MFS-25946-1	c 20	N86-26368 *	NASA-CASE-MSC-12391	c 30	N73-12884 *	NASA-CASE-MSC-14339-1	c 05	N75-24716 *
NASA-CASE-MFS-25949-1	c 37	N86-19603 *	NASA-CASE-MSC-12393-1	c 02	N73-26006 *	NASA-CASE-MSC-14428-1	c 23	N77-17161 *
NASA-CASE-MFS-25956-1	c 37	N87-21333 *	NASA-CASE-MSC-12394-1	c 08	N74-10942 *	NASA-CASE-MSC-14435-1	c 37	N76-18455 *
NASA-CASE-MFS-25962-1	c 09	N84-32398 *	NASA-CASE-MSC-12395	c 09	N72-25257 *	NASA-CASE-MSC-14472-1	c 43	N77-10584 *
NASA-CASE-MFS-25963-1	c 35	N86-20750 *	NASA-CASE-MSC-12396-1	c 03	N73-31988 *	NASA-CASE-MSC-14557-1	c 32	N76-16249 *
NASA-CASE-MFS-25964-2	c 37	N87-22977 *	NASA-CASE-MSC-12397-1	c 05	N72-25119 *	NASA-CASE-MSC-14558-1	c 32	N75-21466 *
NASA-CASE-MFS-25966-1	c 16	N86-26352 *	NASA-CASE-MSC-12398	c 05	N72-20098 *	NASA-CASE-MSC-14623-1	c 52	N77-28717 *
NASA-CASE-MFS-25978-1	c 44	N87-21410 *	NASA-CASE-MSC-12404-1	c 23	N73-13661 *	NASA-CASE-MSC-14632-1	c 54	N78-14784 *
NASA-CASE-MFS-25981-1	c 35	N87-14670 *	NASA-CASE-MSC-12408-1	c 46	N74-13011 *	NASA-CASE-MSC-14640-1	c 54	N76-14804 *
NASA-CASE-MFS-25989-1	c 20	N87-14420 *	NASA-CASE-MSC-12411-1	c 05	N72-20096 *	NASA-CASE-MSC-14649-1	c 33	N76-16331 *
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NASA-CASE-MFS-26002-1-CU	c 35	N86-26598 *	NASA-CASE-MSC-12428-1	c 10	N73-25240 *	NASA-CASE-MSC-14683-1	c 74	N77-18893 *
NASA-CASE-MFS-26009-1SB	c 54	N86-22114 *	NASA-CASE-MSC-12433	c 31	N73-14854 *	NASA-CASE-MSC-14733-1	c 54	N76-24900 *
NASA-CASE-MFS-26011-1-SB	c 52	N87-24874 *	NASA-CASE-MSC-12458-1	c 08	N73-32081 *	NASA-CASE-MSC-14735-1	c 54	N76-24900 *
NASA-CASE-MFS-28008-1	c 35	N85-20300 *	NASA-CASE-MSC-12462-1	c 32	N74-20809 *	NASA-CASE-MSC-14757-1	c 35	N78-10428 *
NASA-CASE-MFS-28013-1	c 89	N86-22459 *	NASA-CASE-MSC-12494-1	c 32	N74-20810 *	NASA-CASE-MSC-14771-1	c 54	N77-32722 *
NASA-CASE-MFS-28030-1	c 35	N86-25752 *	NASA-CASE-MSC-12506-1	c 32	N77-12239 *	NASA-CASE-MSC-14773-1	c 35	N78-12390 *
NASA-CASE-MFS-28044-1	c 31	N87-25491 *	NASA-CASE-MSC-12531-1	c 35	N75-30504 *	NASA-CASE-MSC-14805-1	c 54	N78-32720 *
NASA-CASE-MFS-28057-1	c 09	N87-14355 *	NASA-CASE-MSC-12549-1	c 37	N74-27903 *	NASA-CASE-MSC-14831-1	c 25	N78-10225 *
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NASA-CASE-MFS-28087-1	c 35	N87-23944 *	NASA-CASE-MSC-12607-1	c 32	N75-21485 *	NASA-CASE-MSC-14903-3	c 27	N80-24438 *
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NASA-CASE-MFS-28118-1	c 39	N87-25601 *	NASA-CASE-MSC-12615-1	c 37	N76-19437 *	NASA-CASE-MSC-14939-1	c 32	N79-11264 *

NASA-CASE-MS-15158-1	c 14	N72-17325 *	NASA-CASE-MS-20258-1	c 60	N84-28492 *	NASA-CASE-NPO-10303	c 07	N72-22127 *
NASA-CASE-MS-15474-1	c 15	N71-26162 *	NASA-CASE-MS-20261-1	c 54	N84-28484 *	NASA-CASE-NPO-10309	c 15	N69-23190 *
NASA-CASE-MS-15567-1	c 33	N73-16918 *	NASA-CASE-MS-20261-2	c 54	N84-23113 *	NASA-CASE-NPO-10311	c 31	N71-15643 *
NASA-CASE-MS-15626-1	c 14	N72-25411 *	NASA-CASE-MS-20275-1	c 35	N85-21595 *	NASA-CASE-NPO-10316-1	c 37	N77-22479 *
NASA-CASE-MS-16000-1	c 37	N78-24544 *	NASA-CASE-MS-20304-1	c 37	N82-31690 *	NASA-CASE-NPO-10320	c 14	N71-17655 *
NASA-CASE-MS-16043-1	c 37	N79-11402 *	NASA-CASE-MS-20319-1	c 37	N85-21649 *	NASA-CASE-NPO-10331	c 09	N71-26701 *
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NASA-CASE-MS-16170-2	c 32	N84-27952 *	NASA-CASE-MS-20475-1	c 37	N87-17037 *	NASA-CASE-NPO-10343	c 07	N71-27341 *
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NASA-CASE-MS-16217-1	c 31	N81-27323 *	NASA-CASE-MS-20543-1	c 18	N84-22610 *	NASA-CASE-NPO-10348	c 10	N71-12554 *
NASA-CASE-MS-16239-1	c 37	N81-32510 *	NASA-CASE-MS-20622-1	c 25	N86-19413 *	NASA-CASE-NPO-10351	c 08	N71-12503 *
NASA-CASE-MS-16253-1	c 32	N79-20297 *	NASA-CASE-MS-20635-1	c 18	N87-14373 *	NASA-CASE-NPO-10373	c 03	N71-18698 *
NASA-CASE-MS-16258-1	c 45	N79-12584 *	NASA-CASE-MS-20653-1	c 35	N86-26595 *	NASA-CASE-NPO-10388	c 07	N71-24622 *
NASA-CASE-MS-16260-1	c 51	N80-16714 *	NASA-CASE-MS-20676-1	c 18	N86-24729 *	NASA-CASE-NPO-10401	c 03	N72-20033 *
NASA-CASE-MS-16270-1	c 37	N78-27423 *	NASA-CASE-MS-20761-1	c 37	N87-15465 *	NASA-CASE-NPO-10404	c 03	N71-12255 *
NASA-CASE-MS-16370-1	c 35	N81-19427 *	NASA-CASE-MS-20783-1	c 35	N86-20756 *	NASA-CASE-NPO-10412	c 09	N71-28421 *
NASA-CASE-MS-16394-1	c 28	N81-24280 *	NASA-CASE-MS-20797-1	c 37	N87-23981 *	NASA-CASE-NPO-10416	c 12	N71-27332 *
NASA-CASE-MS-16433-1	c 52	N81-24711 *	NASA-CASE-MS-20812-1	c 34	N86-27593 *	NASA-CASE-NPO-10417	c 16	N71-33410 *
NASA-CASE-MS-16461-1	c 33	N79-11313 *	NASA-CASE-MS-20821-1	c 17	N87-25348 *	NASA-CASE-NPO-10424-1	c 27	N81-24258 *
NASA-CASE-MS-16462-1	c 32	N82-31583 *	NASA-CASE-MS-20840-1	c 34	N87-18779 *	NASA-CASE-NPO-10431	c 15	N71-29132 *
NASA-CASE-MS-16497-1	c 25	N82-12166 *	NASA-CASE-MS-20841-1	c 34	N87-22950 *	NASA-CASE-NPO-10440	c 15	N72-21466 *
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NASA-CASE-MS-16747-1	c 33	N81-17349 *	NASA-CASE-MS-20865-1	c 32	N87-18692 *	NASA-CASE-NPO-10467	c 23	N71-26654 *
NASA-CASE-MS-16777-1	c 51	N80-27067 *	NASA-CASE-MS-20867-1	c 36	N87-25570 *	NASA-CASE-NPO-10468	c 23	N71-33229 *
NASA-CASE-MS-16800-1	c 32	N81-14187 *	NASA-CASE-MS-20873-1-SB	c 32	N87-29718 *	NASA-CASE-NPO-10539	c 07	N71-11285 *
NASA-CASE-MS-16841-1	c 34	N79-24285 *	NASA-CASE-MS-20907-1	c 37	N87-18818 *	NASA-CASE-NPO-10542	c 09	N72-27228 *
NASA-CASE-MS-16934-3	c 24	N84-16262 *	NASA-CASE-MS-20910-1	c 37	N87-25582 *	NASA-CASE-NPO-10548	c 16	N71-24831 *
NASA-CASE-MS-16938-1	c 37	N80-23653 *	NASA-CASE-MS-20912-1	c 32	N86-24879 *	NASA-CASE-NPO-10556	c 14	N71-27185 *
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NASA-CASE-MS-17832-1	c 33	N74-14956 *	NASA-CASE-MS-20964-1	c 60	N87-14863 *	NASA-CASE-NPO-10560	c 08	N72-22166 *
NASA-CASE-MS-18035-1	c 32	N81-15179 *	NASA-CASE-MS-20979-1	c 37	N87-22985 *	NASA-CASE-NPO-10567	c 08	N71-24633 *
NASA-CASE-MS-18106-1	c 33	N82-11357 *	NASA-CASE-MS-20985-1	c 18	N87-15260 *	NASA-CASE-NPO-10575	c 03	N72-25019 *
NASA-CASE-MS-18107-1	c 27	N81-25209 *	NASA-CASE-MS-21025-1	c 31	N87-25495 *	NASA-CASE-NPO-10591	c 03	N72-22041 *
NASA-CASE-MS-18134-1	c 37	N81-15363 *	NASA-CASE-MS-21056-1	c 18	N87-18595 *	NASA-CASE-NPO-10595	c 10	N71-25917 *
NASA-CASE-MS-18172-1	c 26	N80-19237 *	NASA-CASE-MS-21082-1	c 27	N87-29672 *	NASA-CASE-NPO-10596	c 06	N71-25929 *
NASA-CASE-MS-18179-1	c 20	N80-18097 *	NASA-CASE-MS-21096-1	c 18	N87-18596 *	NASA-CASE-NPO-10606	c 15	N72-25451 *
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NASA-CASE-MS-18255-1	c 74	N80-33210 *	NASA-CASE-MS-21169-1	c 27	N87-25473 *	NASA-CASE-NPO-10619-1	c 35	N77-21393 *
NASA-CASE-MS-18334-1	c 32	N80-32604 *	NASA-CASE-MS-21207-1	c 37	N87-25576 *	NASA-CASE-NPO-10625	c 09	N71-26182 *
NASA-CASE-MS-18381-1	c 52	N81-28740 *	NASA-CASE-MS-25707-1	c 35	N85-29214 *	NASA-CASE-NPO-10629	c 08	N72-18184 *
NASA-CASE-MS-18382-1	c 27	N82-16238 *	NASA-CASE-MS-90153-2	c 05	N72-25120 *	NASA-CASE-NPO-10633	c 03	N72-28025 *
NASA-CASE-MS-18382-2	c 27	N84-14324 *				NASA-CASE-NPO-10634	c 23	N72-25619 *
NASA-CASE-MS-18407-1	c 33	N82-24427 *	NASA-CASE-NPO-08835-1	c 27	N78-33228 *	NASA-CASE-NPO-10636	c 08	N72-25210 *
NASA-CASE-MS-18417-1	c 74	N85-29750 *	NASA-CASE-NPO-10003	c 10	N71-26415 *	NASA-CASE-NPO-10637	c 15	N72-12409 *
NASA-CASE-MS-18422-1	c 37	N82-16408 *	NASA-CASE-NPO-10034	c 15	N71-17685 *	NASA-CASE-NPO-10646	c 15	N71-28467 *
NASA-CASE-MS-18430-1	c 37	N82-24491 *	NASA-CASE-NPO-10037	c 09	N71-19610 *	NASA-CASE-NPO-10649	c 07	N71-24840 *
NASA-CASE-MS-18498-1	c 60	N82-29013 *	NASA-CASE-NPO-10046	c 28	N72-17843 *	NASA-CASE-NPO-10671	c 15	N72-20443 *
NASA-CASE-MS-18526-1	c 37	N82-24494 *	NASA-CASE-NPO-10051	c 18	N71-24934 *	NASA-CASE-NPO-10677	c 05	N72-11484 *
NASA-CASE-MS-18532-1	c 32	N82-27558 *	NASA-CASE-NPO-10064	c 15	N71-17693 *	NASA-CASE-NPO-10679	c 15	N72-21062 *
NASA-CASE-MS-18538-1	c 37	N82-26672 *	NASA-CASE-NPO-10066	c 09	N71-18598 *	NASA-CASE-NPO-10680	c 31	N73-14855 *
NASA-CASE-MS-18578-1	c 32	N85-21427 *	NASA-CASE-NPO-10068	c 08	N71-19288 *	NASA-CASE-NPO-10682	c 15	N70-34699 *
NASA-CASE-MS-18606-1	c 32	N82-11336 *	NASA-CASE-NPO-10070	c 15	N71-27372 *	NASA-CASE-NPO-10691	c 14	N71-26199 *
NASA-CASE-MS-18627-1	c 74	N82-30071 *	NASA-CASE-NPO-10096	c 07	N71-24583 *	NASA-CASE-NPO-10694	c 09	N72-20200 *
NASA-CASE-MS-18675-1	c 32	N84-22820 *	NASA-CASE-NPO-10109	c 03	N71-11049 *	NASA-CASE-NPO-10700	c 07	N71-33613 *
NASA-CASE-MS-18723-1	c 35	N83-21312 *	NASA-CASE-NPO-10112	c 08	N71-12502 *	NASA-CASE-NPO-10701	c 06	N71-28620 *
NASA-CASE-MS-18736-1	c 24	N83-13172 *	NASA-CASE-NPO-10117	c 15	N71-15608 *	NASA-CASE-NPO-10704	c 15	N72-20445 *
NASA-CASE-MS-18737-1	c 24	N83-13171 *	NASA-CASE-NPO-10118	c 07	N71-24741 *	NASA-CASE-NPO-10711-1	c 35	N77-21392 *
NASA-CASE-MS-18741-1	c 27	N82-29456 *	NASA-CASE-NPO-10122	c 12	N71-17631 *	NASA-CASE-NPO-10714	c 06	N69-31244 *
NASA-CASE-MS-18742-1	c 37	N82-26673 *	NASA-CASE-NPO-10123	c 15	N71-24835 *	NASA-CASE-NPO-10716	c 09	N71-24892 *
NASA-CASE-MS-18759-1	c 52	N83-27578 *	NASA-CASE-NPO-10138	c 33	N71-16357 *	NASA-CASE-NPO-10721	c 15	N72-27484 *
NASA-CASE-MS-18761-1	c 52	N83-27577 *	NASA-CASE-NPO-10140	c 07	N71-24742 *	NASA-CASE-NPO-10722	c 09	N72-20199 *
NASA-CASE-MS-18791-1	c 37	N83-36482 *	NASA-CASE-NPO-10141	c 11	N71-24964 *	NASA-CASE-NPO-10737	c 28	N72-11709 *
NASA-CASE-MS-18794-1	c 44	N83-14693 *	NASA-CASE-NPO-10143	c 10	N71-26326 *	NASA-CASE-NPO-10743	c 08	N72-21199 *
NASA-CASE-MS-18807-1	c 37	N83-36483 *	NASA-CASE-NPO-10144	c 14	N71-17701 *	NASA-CASE-NPO-10745	c 08	N72-22164 *
NASA-CASE-MS-18832-1	c 27	N83-18908 *	NASA-CASE-NPO-10150	c 08	N71-24650 *	NASA-CASE-NPO-10747	c 03	N72-22042 *
NASA-CASE-MS-18852-1	c 37	N85-29283 *	NASA-CASE-NPO-10151	c 37	N78-17386 *	NASA-CASE-NPO-10748	c 08	N72-20177 *
NASA-CASE-MS-18866-1	c 35	N85-29213 *	NASA-CASE-NPO-10158	c 33	N71-16356 *	NASA-CASE-NPO-10753	c 03	N72-26031 *
NASA-CASE-MS-18929-1	c 39	N83-20280 *	NASA-CASE-NPO-10166-1	c 07	N73-22076 *	NASA-CASE-NPO-10755	c 15	N71-27084 *
NASA-CASE-MS-18934-3	c 24	N82-26387 *	NASA-CASE-NPO-10166-2	c 35	N76-16391 *	NASA-CASE-NPO-10758	c 14	N73-14427 *
NASA-CASE-MS-18936-1	c 35	N83-29652 *	NASA-CASE-NPO-10169	c 10	N71-24844 *	NASA-CASE-NPO-10760	c 09	N72-25254 *
NASA-CASE-MS-18969-1	c 18	N84-22605 *	NASA-CASE-NPO-10173	c 15	N71-24696 *	NASA-CASE-NPO-10764-1	c 14	N73-14428 *
NASA-CASE-MS-19095-1	c 37	N75-19683 *	NASA-CASE-NPO-10174	c 14	N71-18465 *	NASA-CASE-NPO-10764-2	c 35	N75-25122 *
NASA-CASE-MS-19372-1	c 39	N76-31562 *	NASA-CASE-NPO-10175	c 14	N71-18625 *	NASA-CASE-NPO-10765	c 06	N72-20121 *
NASA-CASE-MS-19442-1	c 74	N77-10899 *	NASA-CASE-NPO-10185	c 10	N71-26339 *	NASA-CASE-NPO-10767-1	c 06	N73-33076 *
NASA-CASE-MS-19514-1	c 37	N79-20377 *	NASA-CASE-NPO-10188	c 03	N71-20273 *	NASA-CASE-NPO-10767-2	c 06	N72-27151 *
NASA-CASE-MS-19535-1	c 37	N77-32499 *	NASA-CASE-NPO-10189-1	c 33	N77-21314 *	NASA-CASE-NPO-10768-2	c 06	N72-27144 *
NASA-CASE-MS-19536-1	c 37	N77-22482 *	NASA-CASE-NPO-10194	c 03	N71-20407 *	NASA-CASE-NPO-10768	c 06	N71-27254 *
NASA-CASE-MS-19568-1	c 34	N78-25350 *	NASA-CASE-NPO-10198	c 09	N71-24806 *	NASA-CASE-NPO-10769	c 08	N72-11171 *
NASA-CASE-MS-19666-1	c 37	N78-17383 *	NASA-CASE-NPO-10199	c 09	N72-17156 *	NASA-CASE-NPO-10774	c 06	N72-17095 *
NASA-CASE-MS-19672-1	c 38	N79-14398 *	NASA-CASE-NPO-10201	c 08	N71-18694 *	NASA-CASE-NPO-10778	c 14	N72-11364 *
NASA-CASE-MS-19693-1	c 26	N78-24333 *	NASA-CASE-NPO-10214	c 10	N71-26577 *	NASA-CASE-NPO-10781-1	c 33	N77-21314 *
NASA-CASE-MS-19706-1	c 09	N78-31129 *	NASA-CASE-NPO-10230	c 09	N71-12520 *	NASA-CASE-NPO-10790-1	c 33	N77-21316 *
NASA-CASE-MS-20036-1	c 76	N85-33826 *	NASA-CASE-NPO-10231	c 07	N71-26101 *	NASA-CASE-NPO-10796	c 15	N71-27068 *
NASA-CASE-MS-20080-1	c 37	N85-30334 *	NASA-CASE-NPO-10233-1	c 74	N78-33913 *	NASA-CASE-NPO-10808	c 15	N71-27432 *
NASA-CASE-MS-20112-1	c 37	N85-20338 *	NASA-CASE-NPO-10234	c 06	N72-17094 *	NASA-CASE-NPO-10810	c 14	N71-27323 *
NASA-CASE-MS-20127-2	c 37	N85-34403 *	NASA-CASE-NPO-10242	c 09	N71-24803 *	NASA-CASE-NPO-10812	c 15	N73-13464 *
NASA-CASE-MS-20148-1	c 37	N85-29284 *	NASA-CASE-NPO-10244	c 15	N72-26371 *	NASA-CASE-NPO-10817-1	c 08	N73-30135 *
NASA-CASE-MS-20162-1	c 37	N87-17036 *	NASA-CASE-NPO-10250	c 23	N71-16212 *	NASA-CASE-NPO-10821	c 03	N71-19545 *
NASA-CASE-MS-20181-1	c 33	N82-28549 *	NASA-CASE-NPO-10251	c 10	N71-27365 *	NASA-CASE-NPO-10828	c 33	N72-17948 *
NASA-CASE-MS-20187-1	c 33	N87-25531 *	NASA-CASE-NPO-10271	c 17	N71-16393 *	NASA-CASE-NPO-10830-1	c 27	N81-15104 *
NASA-CASE-MS-20202-1	c 54	N84-16803 *	NASA-CASE-NPO-10298	c 12	N71-17661 *	NASA-CASE-NPO-10831	c 33	N72-20915 *
NASA-CASE-MS-20206-1	c 25	N86-27431 *	NASA-CASE-NPO-10300	c 14	N71-17662 *	NASA-CASE-NPO-10832	c 14	N72-21405 *
NASA-CASE-MS-20250-1	c 35	N86-19581 *	NASA-CASE-NPO-10301	c 07	N72-11148 *	NASA-CASE-NPO-10844	c 07	N72-20140 *
NASA-CASE-MS-20254-1	c 16	N84-22601 *	NASA-CASE-NPO-10302	c 10	N71-26142 *	NASA-CASE-NPO-10851	c 07	N71-24613 *

NASA-CASE-NPO-10857-1	c 33	N80-14330 *	NASA-CASE-NPO-11458	c 28	N72-23810 *	NASA-CASE-NPO-13138-1	c 33	N74-17927 *
NASA-CASE-NPO-10862	c 06	N72-22107 *	NASA-CASE-NPO-11479	c 15	N73-13462 *	NASA-CASE-NPO-13139-1	c 60	N76-21914 *
NASA-CASE-NPO-10863-2	c 06	N72-25152 *	NASA-CASE-NPO-11481	c 21	N73-13644 *	NASA-CASE-NPO-13140-1	c 32	N75-24982 *
NASA-CASE-NPO-10863	c 06	N70-11251 *	NASA-CASE-NPO-11493	c 14	N73-12447 *	NASA-CASE-NPO-13147-1	c 36	N77-25502 *
NASA-CASE-NPO-10866-1	c 28	N79-14228 *	NASA-CASE-NPO-11497	c 08	N73-25206 *	NASA-CASE-NPO-13157-1	c 37	N74-32918 *
NASA-CASE-NPO-10870-1	c 33	N77-22386 *	NASA-CASE-NPO-11510-1	c 33	N77-21315 *	NASA-CASE-NPO-13159-1	c 33	N74-17928 *
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NASA-CASE-NPO-10890	c 11	N73-12265 *	NASA-CASE-NPO-11556	c 12	N72-25292 *	NASA-CASE-NPO-13171-1	c 32	N74-11000 *
NASA-CASE-NPO-10893	c 27	N73-22710 *	NASA-CASE-NPO-11559	c 28	N73-24784 *	NASA-CASE-NPO-13175-1	c 36	N75-31427 *
NASA-CASE-NPO-10985	c 14	N73-20478 *	NASA-CASE-NPO-11569	c 10	N73-26229 *	NASA-CASE-NPO-13201-1	c 37	N75-15050 *
NASA-CASE-NPO-10998-1	c 06	N73-32029 *	NASA-CASE-NPO-11572	c 07	N73-16121 *	NASA-CASE-NPO-13205-1	c 31	N74-32917 *
NASA-CASE-NPO-10999-1	c 06	N73-32029 *	NASA-CASE-NPO-11575-1	c 74	N81-19896 *	NASA-CASE-NPO-13214-1	c 35	N75-25123 *
NASA-CASE-NPO-11001	c 07	N72-21118 *	NASA-CASE-NPO-11593-1	c 07	N73-28012 *	NASA-CASE-NPO-13215-1	c 35	N75-25123 *
NASA-CASE-NPO-11002	c 14	N72-22441 *	NASA-CASE-NPO-11609-2	c 27	N77-31308 *	NASA-CASE-NPO-13217-1	c 35	N75-26194 *
NASA-CASE-NPO-11012	c 15	N72-11391 *	NASA-CASE-NPO-11623-1	c 71	N74-31148 *	NASA-CASE-NPO-13231-1	c 42	N75-27585 *
NASA-CASE-NPO-11013	c 11	N72-22247 *	NASA-CASE-NPO-11628-1	c 07	N73-30113 *	NASA-CASE-NPO-13237-1	c 44	N76-18641 *
NASA-CASE-NPO-11016	c 08	N72-31226 *	NASA-CASE-NPO-11630	c 08	N72-33172 *	NASA-CASE-NPO-13247-1	c 76	N79-16678 *
NASA-CASE-NPO-11018	c 08	N72-21200 *	NASA-CASE-NPO-11631	c 10	N73-12244 *	NASA-CASE-NPO-13253-1	c 37	N75-18573 *
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NASA-CASE-NPO-11023	c 09	N72-17155 *	NASA-CASE-NPO-11661	c 07	N73-14130 *	NASA-CASE-NPO-13274-1	c 25	N79-10163 *
NASA-CASE-NPO-11031	c 07	N71-33606 *	NASA-CASE-NPO-11682-1	c 35	N74-15127 *	NASA-CASE-NPO-13281-1	c 37	N75-13266 *
NASA-CASE-NPO-11036	c 15	N72-24522 *	NASA-CASE-NPO-11686	c 14	N73-25462 *	NASA-CASE-NPO-13282	c 38	N75-13266 *
NASA-CASE-NPO-11059	c 15	N72-17454 *	NASA-CASE-NPO-11703-1	c 10	N73-32144 *	NASA-CASE-NPO-13283	c 38	N78-17395 *
NASA-CASE-NPO-11064	c 07	N72-11150 *	NASA-CASE-NPO-11707	c 07	N73-25161 *	NASA-CASE-NPO-13292-1	c 32	N75-15854 *
NASA-CASE-NPO-11078	c 09	N72-25262 *	NASA-CASE-NPO-11738-1	c 09	N73-30185 *	NASA-CASE-NPO-13303-1	c 20	N75-24837 *
NASA-CASE-NPO-11082	c 08	N72-22167 *	NASA-CASE-NPO-11743-1	c 28	N74-27425 *	NASA-CASE-NPO-13308-1	c 36	N75-30524 *
NASA-CASE-NPO-11087	c 23	N71-29125 *	NASA-CASE-NPO-11749	c 14	N73-28486 *	NASA-CASE-NPO-13309-1	c 25	N81-19244 *
NASA-CASE-NPO-11088	c 08	N71-29034 *	NASA-CASE-NPO-11751	c 07	N73-24176 *	NASA-CASE-NPO-13313-1	c 54	N75-27761 *
NASA-CASE-NPO-11091	c 18	N72-22567 *	NASA-CASE-NPO-11758-1	c 31	N74-23065 *	NASA-CASE-NPO-13321-1	c 32	N75-26195 *
NASA-CASE-NPO-11095	c 15	N72-25455 *	NASA-CASE-NPO-11771	c 03	N73-20040 *	NASA-CASE-NPO-13327-1	c 35	N75-23910 *
NASA-CASE-NPO-11103-1	c 35	N77-27367 *	NASA-CASE-NPO-11775	c 26	N72-28761 *	NASA-CASE-NPO-13342-1	c 37	N76-16446 *
NASA-CASE-NPO-11104	c 08	N72-22165 *	NASA-CASE-NPO-11806-1	c 44	N74-19693 *	NASA-CASE-NPO-13342-2	c 44	N76-29700 *
NASA-CASE-NPO-11106	c 14	N70-34697 *	NASA-CASE-NPO-11820-1	c 32	N74-19788 *	NASA-CASE-NPO-13345-1	c 37	N75-19684 *
NASA-CASE-NPO-11118	c 03	N72-25021 *	NASA-CASE-NPO-11821-1	c 08	N73-26175 *	NASA-CASE-NPO-13346-1	c 36	N76-29575 *
NASA-CASE-NPO-11120-1	c 34	N74-18552 *	NASA-CASE-NPO-11850-1	c 32	N74-12912 *	NASA-CASE-NPO-13348-1	c 33	N75-31332 *
NASA-CASE-NPO-11129	c 09	N72-33204 *	NASA-CASE-NPO-11856-1	c 36	N74-15145 *	NASA-CASE-NPO-13360-1	c 37	N75-25185 *
NASA-CASE-NPO-11130	c 08	N72-20176 *	NASA-CASE-NPO-11861-1	c 36	N74-20009 *	NASA-CASE-NPO-13374-1	c 33	N75-19524 *
NASA-CASE-NPO-11133	c 10	N72-20223 *	NASA-CASE-NPO-11868	c 10	N73-20254 *	NASA-CASE-NPO-13385-1	c 33	N76-18345 *
NASA-CASE-NPO-11134	c 09	N72-21246 *	NASA-CASE-NPO-11880	c 28	N73-24783 *	NASA-CASE-NPO-13386-1	c 54	N75-27758 *
NASA-CASE-NPO-11138	c 03	N70-34646 *	NASA-CASE-NPO-11905-1	c 33	N74-12887 *	NASA-CASE-NPO-13388-1	c 35	N76-16390 *
NASA-CASE-NPO-11140	c 15	N72-17455 *	NASA-CASE-NPO-11919-1	c 35	N74-11284 *	NASA-CASE-NPO-13391-1	c 34	N76-27515 *
NASA-CASE-NPO-11147	c 14	N72-27408 *	NASA-CASE-NPO-11921-1	c 32	N74-30523 *	NASA-CASE-NPO-13396-1	c 35	N76-18401 *
NASA-CASE-NPO-11150	c 35	N78-17359 *	NASA-CASE-NPO-11932-1	c 35	N74-23040 *	NASA-CASE-NPO-13402-1	c 37	N76-18457 *
NASA-CASE-NPO-11156-2	c 33	N75-31331 *	NASA-CASE-NPO-11941-1	c 10	N73-27171 *	NASA-CASE-NPO-13422-1	c 60	N76-14818 *
NASA-CASE-NPO-11161	c 08	N72-25207 *	NASA-CASE-NPO-11942-1	c 33	N73-32818 *	NASA-CASE-NPO-13423-1	c 33	N75-31329 *
NASA-CASE-NPO-11177	c 15	N72-17453 *	NASA-CASE-NPO-11945-1	c 36	N76-18427 *	NASA-CASE-NPO-13426-1	c 33	N75-31330 *
NASA-CASE-NPO-11190	c 03	N71-34044 *	NASA-CASE-NPO-11948-1	c 33	N74-32712 *	NASA-CASE-NPO-13428-1	c 60	N77-12721 *
NASA-CASE-NPO-11191-1	c 33	N77-22386 *	NASA-CASE-NPO-11951-1	c 37	N74-21065 *	NASA-CASE-NPO-13435-1	c 31	N76-14284 *
NASA-CASE-NPO-11194	c 08	N72-25209 *	NASA-CASE-NPO-11954-1	c 35	N78-29421 *	NASA-CASE-NPO-13436-1	c 37	N76-20480 *
NASA-CASE-NPO-11201	c 14	N72-27409 *	NASA-CASE-NPO-11961-1	c 44	N76-18643 *	NASA-CASE-NPO-13443-1	c 76	N76-20994 *
NASA-CASE-NPO-11202	c 15	N72-25450 *	NASA-CASE-NPO-11962-1	c 33	N74-10194 *	NASA-CASE-NPO-13447-1	c 60	N77-12721 *
NASA-CASE-NPO-11203	c 10	N72-20224 *	NASA-CASE-NPO-11966-1	c 33	N74-17928 *	NASA-CASE-NPO-13449-1	c 36	N75-32441 *
NASA-CASE-NPO-11210	c 11	N72-20244 *	NASA-CASE-NPO-11975-1	c 28	N74-33209 *	NASA-CASE-NPO-13451-1	c 33	N76-14373 *
NASA-CASE-NPO-11213	c 15	N73-20514 *	NASA-CASE-NPO-11978	c 31	N78-17238 *	NASA-CASE-NPO-13459-1	c 31	N77-10229 *
NASA-CASE-NPO-11222	c 15	N72-25456 *	NASA-CASE-NPO-12000	c 27	N72-25699 *	NASA-CASE-NPO-13462-1	c 35	N76-24524 *
NASA-CASE-NPO-11239	c 14	N73-12446 *	NASA-CASE-NPO-12015	c 27	N73-16764 *	NASA-CASE-NPO-13464-1	c 44	N76-18642 *
NASA-CASE-NPO-11243	c 07	N72-20154 *	NASA-CASE-NPO-12061-1	c 27	N76-16228 *	NASA-CASE-NPO-13464-2	c 44	N76-29704 *
NASA-CASE-NPO-11253	c 09	N72-17157 *	NASA-CASE-NPO-12070-1	c 28	N73-32606 *	NASA-CASE-NPO-13465-1	c 32	N76-31372 *
NASA-CASE-NPO-11264	c 07	N72-25174 *	NASA-CASE-NPO-12072	c 28	N72-22772 *	NASA-CASE-NPO-13474-1	c 45	N76-21742 *
NASA-CASE-NPO-11282	c 10	N73-16205 *	NASA-CASE-NPO-12087-1	c 74	N81-19898 *	NASA-CASE-NPO-13479-1	c 35	N77-10492 *
NASA-CASE-NPO-11283	c 09	N72-25260 *	NASA-CASE-NPO-12106	c 09	N73-15235 *	NASA-CASE-NPO-13482-1	c 44	N78-13526 *
NASA-CASE-NPO-11291-1	c 14	N73-30388 *	NASA-CASE-NPO-12107	c 08	N71-27255 *	NASA-CASE-NPO-13490-1	c 36	N76-31512 *
NASA-CASE-NPO-11302-1	c 07	N73-13149 *	NASA-CASE-NPO-12109	c 11	N72-22245 *	NASA-CASE-NPO-13497-1	c 44	N76-14602 *
NASA-CASE-NPO-11302-2	c 32	N74-10132 *	NASA-CASE-NPO-12119-1	c 52	N75-15270 *	NASA-CASE-NPO-13504-1	c 33	N75-30430 *
NASA-CASE-NPO-11304	c 14	N73-26430 *	NASA-CASE-NPO-12122-1	c 24	N76-14203 *	NASA-CASE-NPO-13506-1	c 35	N76-15435 *
NASA-CASE-NPO-11307-1	c 10	N73-30205 *	NASA-CASE-NPO-12127-1	c 91	N74-13130 *	NASA-CASE-NPO-13510-1	c 44	N77-32581 *
NASA-CASE-NPO-11311	c 14	N72-25414 *	NASA-CASE-NPO-12128-1	c 14	N73-32317 *	NASA-CASE-NPO-13512-1	c 33	N77-10428 *
NASA-CASE-NPO-11317-2	c 36	N74-13205 *	NASA-CASE-NPO-12130-1	c 25	N75-14844 *	NASA-CASE-NPO-13519-1	c 33	N76-19338 *
NASA-CASE-NPO-11322	c 06	N72-25146 *	NASA-CASE-NPO-12131-3	c 37	N80-18400 *	NASA-CASE-NPO-13528-1	c 09	N77-10071 *
NASA-CASE-NPO-11330	c 33	N73-26958 *	NASA-CASE-NPO-12134-1	c 33	N76-31409 *	NASA-CASE-NPO-13530-1	c 25	N81-17187 *
NASA-CASE-NPO-11333	c 08	N72-22162 *	NASA-CASE-NPO-12142-1	c 38	N76-28563 *	NASA-CASE-NPO-13531-1	c 36	N76-24553 *
NASA-CASE-NPO-11336-1	c 76	N79-16678 *	NASA-CASE-NPO-12148-1	c 44	N78-27515 *	NASA-CASE-NPO-13535-1	c 37	N76-31524 *
NASA-CASE-NPO-11337-1	c 74	N81-19896 *	NASA-CASE-NPO-13044-1	c 35	N74-15094 *	NASA-CASE-NPO-13540-1	c 35	N77-14409 *
NASA-CASE-NPO-11338	c 08	N72-25208 *	NASA-CASE-NPO-13050-1	c 36	N75-15029 *	NASA-CASE-NPO-13541-1	c 37	N79-14383 *
NASA-CASE-NPO-11340	c 15	N72-33477 *	NASA-CASE-NPO-13058-1	c 37	N77-22480 *	NASA-CASE-NPO-13543-1	c 32	N77-12240 *
NASA-CASE-NPO-11342	c 09	N72-25248 *	NASA-CASE-NPO-13059-1	c 37	N76-20480 *	NASA-CASE-NPO-13544-1	c 36	N76-18428 *
NASA-CASE-NPO-11358	c 07	N72-25172 *	NASA-CASE-NPO-13063-1	c 25	N76-18245 *	NASA-CASE-NPO-13545-1	c 32	N77-12240 *
NASA-CASE-NPO-11361	c 07	N72-32169 *	NASA-CASE-NPO-13064-1	c 33	N79-11314 *	NASA-CASE-NPO-13550-1	c 36	N77-26477 *
NASA-CASE-NPO-11366	c 11	N73-26238 *	NASA-CASE-NPO-13065-1	c 52	N74-26625 *	NASA-CASE-NPO-13553-1	c 33	N76-32457 *
NASA-CASE-NPO-11369	c 15	N73-13467 *	NASA-CASE-NPO-13067-1	c 60	N76-18800 *	NASA-CASE-NPO-13556-1	c 35	N84-33766 *
NASA-CASE-NPO-11371	c 08	N73-12177 *	NASA-CASE-NPO-13081-1	c 33	N74-22814 *	NASA-CASE-NPO-13560-1	c 44	N77-10636 *
NASA-CASE-NPO-11373	c 13	N72-25323 *	NASA-CASE-NPO-13086-1	c 15	N73-12495 *	NASA-CASE-NPO-13561-1	c 44	N77-10636 *
NASA-CASE-NPO-11377	c 15	N73-27406 *	NASA-CASE-NPO-13087-2	c 44	N76-31666 *	NASA-CASE-NPO-13566-1	c 25	N77-32255 *
NASA-CASE-NPO-11387	c 14	N73-14429 *	NASA-CASE-NPO-13091-1	c 09	N73-12214 *	NASA-CASE-NPO-13567-1	c 44	N76-29701 *
NASA-CASE-NPO-11388	c 03	N72-23048 *	NASA-CASE-NPO-13096-1	c 37	N77-22480 *	NASA-CASE-NPO-13568-1	c 32	N76-21365 *
NASA-CASE-NPO-11403-1	c 33	N77-22386 *	NASA-CASE-NPO-13103-1	c 32	N74-20811 *	NASA-CASE-NPO-13569-2	c 35	N79-14348 *
NASA-CASE-NPO-11406	c 08	N73-12175 *	NASA-CASE-NPO-13105-1	c 37	N74-21060 *	NASA-CASE-NPO-13579-1	c 44	N78-17460 *
NASA-CASE-NPO-11417	c 15	N73-24513 *	NASA-CASE-NPO-13112-1	c 73	N74-26767 *	NASA-CASE-NPO-13579-2	c 44	N79-24433 *
NASA-CASE-NPO-11418-1	c 14	N73-13420 *	NASA-CASE-NPO-13114-2	c 73	N78-28913 *	NASA-CASE-NPO-13579-3	c 44	N79-24432 *
NASA-CASE-NPO-11426	c 07	N73-26119 *	NASA-CASE-NPO-13120-1	c 27	N76-15311 *	NASA-CASE-NPO-13579-4	c 44	N79-14529 *
NASA-CASE-NPO-11429-1	c 74	N77-21941 *	NASA-CASE-NPO-13121-1	c 73	N77-18891 *	NASA-CASE-NPO-13581-2	c 44	N78-31525 *
NASA-CASE-NPO-11432-2	c 35	N74-15090 *	NASA-CASE-NPO-13125-1	c 33	N75-19519 *	NASA-CASE-NPO-13587-1	c 32	N77-32342 *
NASA-CASE-NPO-11437	c 16	N72-28521 *	NASA-CASE-NPO-13127-1	c 35	N74-23040 *	NASA-CASE-NPO-13604-1	c 35	N76-31490 *
NASA-CASE-NPO-11456	c 08	N73-26176 *	NASA-CASE-NPO-13131-1	c 36	N75-19652 *	NASA-CASE-NPO-13606-2	c 35	N80-18364 *
NASA-CASE-NPO-11458A	c 20	N78-32179 *	NASA-CASE-NPO-13137-1	c 27	N80-32514 *	NASA-CASE-NPO-13613-1	c 37	N76-29590 *

NASA-CASE-NPO-13619-1	c 37	N78-16369 *	NASA-CASE-NPO-14066-1	c 74	N79-34011 *	NASA-CASE-NPO-14549-2	c 52	N82-33996 *
NASA-CASE-NPO-13620-1	c 27	N77-30236 *	NASA-CASE-NPO-14078-1	c 72	N80-14877 *	NASA-CASE-NPO-14554-1	c 60	N81-27814 *
NASA-CASE-NPO-13641-1	c 32	N80-20434 *	NASA-CASE-NPO-14079-1	c 25	N80-20334 *	NASA-CASE-NPO-14556-1	c 33	N82-24418 *
NASA-CASE-NPO-13643-1	c 52	N76-29896 *	NASA-CASE-NPO-14092-1	c 52	N80-16725 *	NASA-CASE-NPO-14558-1	c 46	N80-24906 *
NASA-CASE-NPO-13644-1	c 52	N76-29895 *	NASA-CASE-NPO-14093-1	c 35	N80-20563 *	NASA-CASE-NPO-14567-1	c 33	N83-18996 *
NASA-CASE-NPO-13650-1	c 25	N79-28253 *	NASA-CASE-NPO-14096-1	c 44	N80-18551 *	NASA-CASE-NPO-14579-1	c 32	N80-18253 *
NASA-CASE-NPO-13652-1	c 44	N79-17314 *	NASA-CASE-NPO-14100-1	c 44	N79-12541 *	NASA-CASE-NPO-14588-1	c 32	N81-25278 *
NASA-CASE-NPO-13652-2	c 44	N79-24431 *	NASA-CASE-NPO-14101-1	c 52	N80-14687 *	NASA-CASE-NPO-14590-1	c 32	N80-18253 *
NASA-CASE-NPO-13652-3	c 44	N80-14474 *	NASA-CASE-NPO-14103-1	c 28	N78-31255 *	NASA-CASE-NPO-14596-1	c 31	N81-33319 *
NASA-CASE-NPO-13663-1	c 35	N77-14406 *	NASA-CASE-NPO-14109-1	c 28	N80-23471 *	NASA-CASE-NPO-14596-3	c 31	N83-31896 *
NASA-CASE-NPO-13666-1	c 27	N77-13217 *	NASA-CASE-NPO-14110-1	c 28	N81-15119 *	NASA-CASE-NPO-14597-2	c 37	N84-28081 *
NASA-CASE-NPO-13671-1	c 37	N77-31497 *	NASA-CASE-NPO-14112-1	c 46	N79-22679 *	NASA-CASE-NPO-14617-1	c 33	N81-24338 *
NASA-CASE-NPO-13673-1	c 71	N77-26919 *	NASA-CASE-NPO-14124-1	c 46	N80-14603 *	NASA-CASE-NPO-14619-1	c 44	N81-17518 *
NASA-CASE-NPO-13675-1	c 44	N77-32580 *	NASA-CASE-NPO-14126-1	c 44	N79-11470 *	NASA-CASE-NPO-14632-1	c 32	N82-18443 *
NASA-CASE-NPO-13676-1	c 60	N79-20751 *	NASA-CASE-NPO-14130-1	c 34	N79-20335 *	NASA-CASE-NPO-14635-1	c 44	N80-24741 *
NASA-CASE-NPO-13683-1	c 35	N77-14411 *	NASA-CASE-NPO-14134-1	c 71	N79-23753 *	NASA-CASE-NPO-14640-1	c 32	N80-32605 *
NASA-CASE-NPO-13687-1	c 35	N78-18391 *	NASA-CASE-NPO-14140-1	c 43	N81-26509 *	NASA-CASE-NPO-14641-1	c 32	N81-29308 *
NASA-CASE-NPO-13689-2	c 44	N81-29525 *	NASA-CASE-NPO-14143-1	c 25	N81-14015 *	NASA-CASE-NPO-14657-1	c 74	N81-17887 *
NASA-CASE-NPO-13689-4	c 44	N82-28780 *	NASA-CASE-NPO-14152-1	c 32	N80-18252 *	NASA-CASE-NPO-14670-1	c 44	N81-19558 *
NASA-CASE-NPO-13690-1	c 27	N78-19302 *	NASA-CASE-NPO-14162-1	c 60	N81-15706 *	NASA-CASE-NPO-14749-1	c 32	N81-14186 *
NASA-CASE-NPO-13690-2	c 27	N79-14213 *	NASA-CASE-NPO-14163-1	c 33	N81-14220 *	NASA-CASE-NPO-14782-1	c 36	N82-28616 *
NASA-CASE-NPO-13691-1	c 43	N79-17288 *	NASA-CASE-NPO-14167-1	c 60	N81-15706 *	NASA-CASE-NPO-14813-1	c 74	N82-24072 *
NASA-CASE-NPO-13707-1	c 74	N77-28933 *	NASA-CASE-NPO-14169-1	c 60	N81-15706 *	NASA-CASE-NPO-14831-1	c 76	N82-30105 *
NASA-CASE-NPO-13722-1	c 74	N77-22951 *	NASA-CASE-NPO-14170-1	c 37	N81-15364 *	NASA-CASE-NPO-14839-1	c 35	N82-15381 *
NASA-CASE-NPO-13731-1	c 39	N78-10493 *	NASA-CASE-NPO-14173-1	c 04	N80-32359 *	NASA-CASE-NPO-14845-1	c 27	N82-28442 *
NASA-CASE-NPO-13732-1	c 44	N79-10513 *	NASA-CASE-NPO-14174-1	c 74	N79-20856 *	NASA-CASE-NPO-14857-1	c 27	N83-19900 *
NASA-CASE-NPO-13734-1	c 44	N78-10554 *	NASA-CASE-NPO-14191-1	c 31	N80-32584 *	NASA-CASE-NPO-14864-1	c 74	N83-19597 *
NASA-CASE-NPO-13736-1	c 44	N77-32583 *	NASA-CASE-NPO-14192-1	c 39	N80-10507 *	NASA-CASE-NPO-14902-1	c 25	N82-29371 *
NASA-CASE-NPO-13753-1	c 32	N77-20289 *	NASA-CASE-NPO-14199-1	c 44	N79-25482 *	NASA-CASE-NPO-14936-1	c 47	N83-32232 *
NASA-CASE-NPO-13758-2	c 31	N81-15154 *	NASA-CASE-NPO-14200-1	c 44	N79-25482 *	NASA-CASE-NPO-14940-1	c 33	N83-31954 *
NASA-CASE-NPO-13759-1	c 74	N78-17867 *	NASA-CASE-NPO-14205-1	c 44	N79-31752 *	NASA-CASE-NPO-14987-1	c 24	N83-33950 *
NASA-CASE-NPO-13763-1	c 44	N78-33526 *	NASA-CASE-NPO-14212-1	c 52	N80-27072 *	NASA-CASE-NPO-14998-1	c 32	N83-18975 *
NASA-CASE-NPO-13764-1	c 27	N78-17215 *	NASA-CASE-NPO-14219-1	c 74	N81-17886 *	NASA-CASE-NPO-15015-1	c 25	N82-28368 *
NASA-CASE-NPO-13772-1	c 35	N78-10429 *	NASA-CASE-NPO-14220-1	c 37	N81-14318 *	NASA-CASE-NPO-15021-1	c 36	N83-10417 *
NASA-CASE-NPO-13786-1	c 44	N80-29835 *	NASA-CASE-NPO-14221-1	c 37	N81-25370 *	NASA-CASE-NPO-15024-1	c 32	N84-27951 *
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NASA-CASE-NPO-13801-1	c 36	N78-18410 *	NASA-CASE-NPO-14229-1	c 33	N80-18285 *	NASA-CASE-NPO-15037-2	c 37	N85-29282 *
NASA-CASE-NPO-13802-1	c 71	N78-10837 *	NASA-CASE-NPO-14231-1	c 46	N80-10709 *	NASA-CASE-NPO-15066-1	c 33	N82-29538 *
NASA-CASE-NPO-13804-1	c 33	N80-23559 *	NASA-CASE-NPO-14237-1	c 44	N80-20808 *	NASA-CASE-NPO-15070-1	c 31	N83-35176 *
NASA-CASE-NPO-13808-1	c 35	N78-15461 *	NASA-CASE-NPO-14253-1	c 32	N80-32605 *	NASA-CASE-NPO-15071-1	c 44	N82-16475 *
NASA-CASE-NPO-13810-1	c 44	N77-32582 *	NASA-CASE-NPO-14254-1	c 36	N80-18372 *	NASA-CASE-NPO-15100-1	c 44	N84-14583 *
NASA-CASE-NPO-13812-1	c 33	N77-30365 *	NASA-CASE-NPO-14255-1	c 46	N79-23555 *	NASA-CASE-NPO-15102-1	c 25	N81-25159 *
NASA-CASE-NPO-13813-1	c 44	N78-31526 *	NASA-CASE-NPO-14258-1	c 35	N81-33448 *	NASA-CASE-NPO-15111-1	c 36	N82-29589 *
NASA-CASE-NPO-13817-1	c 44	N79-11471 *	NASA-CASE-NPO-14260-1	c 28	N79-28342 *	NASA-CASE-NPO-15115-1	c 37	N82-24493 *
NASA-CASE-NPO-13821-1	c 44	N78-28594 *	NASA-CASE-NPO-14272-1	c 25	N81-33246 *	NASA-CASE-NPO-15155-1	c 74	N85-22139 *
NASA-CASE-NPO-13823-1	c 37	N81-25371 *	NASA-CASE-NPO-14273-1	c 25	N82-11144 *	NASA-CASE-NPO-15161-1	c 33	N84-16456 *
NASA-CASE-NPO-13828-1	c 37	N79-11405 *	NASA-CASE-NPO-14295-1	c 76	N80-32245 *	NASA-CASE-NPO-15179-1	c 44	N82-26777 *
NASA-CASE-NPO-13830-1	c 32	N80-14281 *	NASA-CASE-NPO-14297-1	c 33	N81-19389 *	NASA-CASE-NPO-15183-1	c 44	N82-26776 *
NASA-CASE-NPO-13836-1	c 32	N78-15323 *	NASA-CASE-NPO-14298-1	c 76	N80-32244 *	NASA-CASE-NPO-15197-1	c 52	N83-25346 *
NASA-CASE-NPO-13839-1	c 31	N78-25256 *	NASA-CASE-NPO-14303-1	c 44	N80-18550 *	NASA-CASE-NPO-15201-1	c 36	N83-35350 *
NASA-CASE-NPO-13847-2	c 85	N79-17747 *	NASA-CASE-NPO-14305-1	c 44	N80-18550 *	NASA-CASE-NPO-15202-1	c 27	N83-34043 *
NASA-CASE-NPO-13848-2	c 85	N79-17747 *	NASA-CASE-NPO-14311-1	c 33	N82-29539 *	NASA-CASE-NPO-15210-1	c 25	N84-22709 *
NASA-CASE-NPO-13849-1	c 28	N80-10374 *	NASA-CASE-NPO-14315-1	c 27	N81-17261 *	NASA-CASE-NPO-15213-1	c 51	N83-17045 *
NASA-CASE-NPO-13858-1	c 28	N79-11231 *	NASA-CASE-NPO-14316-1	c 33	N81-33404 *	NASA-CASE-NPO-15220-1	c 45	N83-25217 *
NASA-CASE-NPO-13859-1	c 28	N79-11231 *	NASA-CASE-NPO-14324-1	c 72	N80-27163 *	NASA-CASE-NPO-15227-1	c 37	N81-33482 *
NASA-CASE-NPO-13862-1	c 35	N79-10391 *	NASA-CASE-NPO-14328-1	c 32	N80-18253 *	NASA-CASE-NPO-15251-1	c 31	N83-31897 *
NASA-CASE-NPO-13867-1	c 27	N78-14164 *	NASA-CASE-NPO-14329-1	c 52	N81-20703 *	NASA-CASE-NPO-15264-1	c 04	N84-27713 *
NASA-CASE-NPO-13872-1	c 33	N78-10377 *	NASA-CASE-NPO-14340-1	c 45	N80-14579 *	NASA-CASE-NPO-15269-1	c 44	N82-29710 *
NASA-CASE-NPO-13877-1	c 45	N82-11634 *	NASA-CASE-NPO-14350-1	c 33	N80-14332 *	NASA-CASE-NPO-15292-1	c 35	N83-27184 *
NASA-CASE-NPO-13886-1	c 32	N78-24391 *	NASA-CASE-NPO-14361-1	c 32	N82-23376 *	NASA-CASE-NPO-15295-1	c 60	N85-21992 *
NASA-CASE-NPO-13899-1	c 27	N80-32515 *	NASA-CASE-NPO-14362-1	c 32	N80-16261 *	NASA-CASE-NPO-15304-1	c 25	N83-31743 *
NASA-CASE-NPO-13904-1	c 25	N79-11152 *	NASA-CASE-NPO-14363-1	c 39	N81-25400 *	NASA-CASE-NPO-15334-1	c 71	N83-35781 *
NASA-CASE-NPO-13906-1	c 54	N79-24652 *	NASA-CASE-NPO-14369-1	c 44	N83-10501 *	NASA-CASE-NPO-15341-1	c 35	N84-33769 *
NASA-CASE-NPO-13907-1	c 28	N80-10374 *	NASA-CASE-NPO-14372-1	c 35	N80-26635 *	NASA-CASE-NPO-15342-1	c 60	N83-32342 *
NASA-CASE-NPO-13909-1	c 33	N78-25319 *	NASA-CASE-NPO-14382-1	c 31	N80-18231 *	NASA-CASE-NPO-15345-1	c 74	N84-23247 *
NASA-CASE-NPO-13910-1	c 52	N79-27836 *	NASA-CASE-NPO-14384-1	c 37	N80-10494 *	NASA-CASE-NPO-15351-1	c 06	N83-10040 *
NASA-CASE-NPO-13913-1	c 52	N79-12694 *	NASA-CASE-NPO-14387-1	c 43	N81-26509 *	NASA-CASE-NPO-15351-2	c 06	N84-34443 *
NASA-CASE-NPO-13914-1	c 44	N78-31526 *	NASA-CASE-NPO-14388-1	c 37	N81-17432 *	NASA-CASE-NPO-15358-1	c 33	N83-27126 *
NASA-CASE-NPO-13918-1	c 76	N79-11920 *	NASA-CASE-NPO-14395-1	c 37	N82-21587 *	NASA-CASE-NPO-15375-1	c 74	N84-11921 *
NASA-CASE-NPO-13921-1	c 44	N79-14526 *	NASA-CASE-NPO-14402-1	c 52	N81-27783 *	NASA-CASE-NPO-15388-1	c 44	N84-28203 *
NASA-CASE-NPO-13930-1	c 52	N79-14749 *	NASA-CASE-NPO-14406-1	c 37	N80-29703 *	NASA-CASE-NPO-15398-1	c 35	N84-22931 *
NASA-CASE-NPO-13935-1	c 52	N79-14751 *	NASA-CASE-NPO-14416-1	c 44	N81-14389 *	NASA-CASE-NPO-15400-1	c 34	N83-31993 *
NASA-CASE-NPO-13937-1	c 44	N78-31527 *	NASA-CASE-NPO-14424-1	c 33	N80-32650 *	NASA-CASE-NPO-15401-1	c 32	N83-27085 *
NASA-CASE-NPO-13941-1	c 32	N79-10262 *	NASA-CASE-NPO-14426-1	c 33	N81-27396 *	NASA-CASE-NPO-15419-2	c 44	N85-30474 *
NASA-CASE-NPO-13944-1	c 52	N79-14751 *	NASA-CASE-NPO-14430-1	c 33	N80-32650 *	NASA-CASE-NPO-15423-1	c 35	N84-28016 *
NASA-CASE-NPO-13945-1	c 36	N78-27402 *	NASA-CASE-NPO-14435-1	c 33	N81-33405 *	NASA-CASE-NPO-15426-1	c 35	N84-17555 *
NASA-CASE-NPO-13948-1	c 35	N78-25391 *	NASA-CASE-NPO-14444-1	c 33	N81-15192 *	NASA-CASE-NPO-15430-1	c 46	N85-21846 *
NASA-CASE-NPO-13953-1	c 35	N79-28527 *	NASA-CASE-NPO-14448-1	c 74	N81-29963 *	NASA-CASE-NPO-15432-1	c 32	N85-29117 *
NASA-CASE-NPO-13958-1	c 25	N79-11151 *	NASA-CASE-NPO-14467-1	c 44	N79-31753 *	NASA-CASE-NPO-15433-1	c 32	N85-21428 *
NASA-CASE-NPO-13969-1	c 76	N79-23798 *	NASA-CASE-NPO-14473-1	c 37	N80-23654 *	NASA-CASE-NPO-15435-1	c 71	N83-36846 *
NASA-CASE-NPO-13970-1	c 33	N81-20352 *	NASA-CASE-NPO-14474-1	c 26	N80-14229 *	NASA-CASE-NPO-15453-1	c 71	N83-32515 *
NASA-CASE-NPO-13982-1	c 32	N79-14267 *	NASA-CASE-NPO-14477-1	c 28	N80-28536 *	NASA-CASE-NPO-15458-1	c 25	N84-12262 *
NASA-CASE-NPO-13993-1	c 72	N79-13826 *	NASA-CASE-NPO-14480-1	c 32	N80-20448 *	NASA-CASE-NPO-15464-1	c 74	N85-29749 *
NASA-CASE-NPO-13999-1	c 35	N78-18395 *	NASA-CASE-NPO-14501-1	c 35	N80-18357 *	NASA-CASE-NPO-15465-1	c 34	N84-22903 *
NASA-CASE-NPO-14000-1	c 33	N79-24254 *	NASA-CASE-NPO-14502-1	c 74	N81-17888 *	NASA-CASE-NPO-15466-1	c 71	N85-22104 *
NASA-CASE-NPO-14001-1	c 27	N81-14076 *	NASA-CASE-NPO-14505-1	c 33	N81-19393 *	NASA-CASE-NPO-15482-1	c 37	N87-23970 *
NASA-CASE-NPO-14005-1	c 71	N79-20827 *	NASA-CASE-NPO-14513-1	c 35	N81-14287 *	NASA-CASE-NPO-15483-1	c 37	N85-21650 *
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NASA-CASE-NPO-14014-1	c 37	N79-10420 *	NASA-CASE-NPO-14521-1	c 37	N81-27519 *	NASA-CASE-NPO-15496-1	c 44	N84-23018 *
NASA-CASE-NPO-14019-1	c 32	N79-14268 *	NASA-CASE-NPO-14524-1	c 32	N80-24510 *	NASA-CASE-NPO-15516-1	c 36	N84-22943 *
NASA-CASE-NPO-14021-2	c 27	N80-16163 *	NASA-CASE-NPO-14525-1	c 32	N79-19195 *	NASA-CASE-NPO-15519-1	c 32	N84-34651 *
NASA-CASE-NPO-14022-1	c 32	N78-31321 *	NASA-CASE-NPO-14525-2	c 32	N83-31918 *	NASA-CASE-NPO-15522-1	c 71	N83-32516 *
NASA-CASE-NPO-14035-1	c 32	N83-19968 *	NASA-CASE-NPO-14527-1	c 32	N80-24510 *	NASA-CASE-NPO-15530-1	c 76	N83-35888 *
NASA-CASE-NPO-14054-1	c 32	N82-12297 *	NASA-CASE-NPO-14536-1	c 32	N81-14185 *	NASA-CASE-NPO-15539-1	c 37	N82-11469 *
NASA-CASE-NPO-14056-1	c 33	N79-24257 *	NASA-CASE-NPO-14542-1	c 25	N82-23282 *	NASA-CASE-NPO-15547-1	c 72	N84-16959 *
NASA-CASE-NPO-14058-1	c 44	N79-18443 *	NASA-CASE-NPO-14544-1	c 46	N82-12685 *	NASA-CASE-NPO-15553-1	c 33	N85-29142 *

NASA-CASE-NPO-15558-1	c 35	N84-34705 *	NASA-CASE-NPO-16734-1-CU	c 31	N86-27467 *	NASA-CASE-XER-07894	c 09	N71-18721 *
NASA-CASE-NPO-15559-1	c 71	N85-30765 *	NASA-CASE-NPO-16750-1-CU	c 74	N87-19064 *	NASA-CASE-XER-07895	c 26	N72-25679 *
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NASA-CASE-NPO-15562-1	c 71	N82-27086 *	NASA-CASE-NPO-16784-1	c 33	N87-10231 *	NASA-CASE-XER-08476-1	c 26	N72-17820 *
NASA-CASE-NPO-15592-1	c 71	N84-16940 *	NASA-CASE-NPO-16808-1-CU	c 76	N87-25868 *	NASA-CASE-XER-09213	c 07	N71-12390 *
NASA-CASE-NPO-15617-1	c 35	N87-21304 *	NASA-CASE-NPO-16869-1-CU	c 74	N86-33138 *	NASA-CASE-XER-09519	c 14	N71-18483 *
NASA-CASE-NPO-15625-1	c 76	N83-20789 *	NASA-CASE-NPO-16892-1-CU	c 37	N87-14704 *	NASA-CASE-XER-09521	c 09	N72-12136 *
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NASA-CASE-NPO-15644-1	c 35	N84-33767 *	NASA-CASE-NPO-16907-1-CU	c 25	N87-18625 *	NASA-CASE-XER-11046	c 09	N72-22203 *
NASA-CASE-NPO-15651-1	c 43	N85-21723 *	NASA-CASE-NPO-16932-1-CU	c 33	N87-15413 *	NASA-CASE-XER-11203	c 14	N71-28994 *
NASA-CASE-NPO-15656-1	c 43	N84-23012 *	NASA-CASE-NPO-16949-1-CU	c 62	N87-19021 *			
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NASA-CASE-NPO-15662-1	c 44	N84-28204 *	NASA-CASE-NPO-17022-1-CU	c 29	N87-25489 *	NASA-CASE-XFR-00756	c 02	N71-13421 *
NASA-CASE-NPO-15689-1	c 71	N84-23233 *	NASA-CASE-NPO-17058-1-CU	c 62	N87-25803 *	NASA-CASE-XFR-00811	c 15	N70-36901 *
NASA-CASE-NPO-15696-1	c 33	N85-34333 *	NASA-CASE-NPO-17068-1-CU	c 35	N87-29799 *	NASA-CASE-XFR-00929	c 31	N70-34966 *
NASA-CASE-NPO-15704-1	c 32	N85-34327 *	NASA-CASE-NPO-17108-1-CU	c 33	N87-27926 *	NASA-CASE-XFR-02007	c 12	N71-24692 *
NASA-CASE-NPO-15706-1	c 35	N84-28017 *				NASA-CASE-XFR-03107	c 09	N71-19449 *
NASA-CASE-NPO-15722-1	c 35	N85-29212 *	NASA-CASE-NSTL-10	c 45	N84-12654 *	NASA-CASE-XFR-03802	c 33	N71-20805 *
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NASA-CASE-NPO-15753-1	c 27	N84-33589 *	NASA-CASE-NUC-10107-1	c 33	N74-17930 *	NASA-CASE-XFR-04147	c 11	N71-10748 *
NASA-CASE-NPO-15759-1	c 35	N85-21596 *				NASA-CASE-XFR-05302	c 15	N71-23254 *
NASA-CASE-NPO-15767-1	c 23	N84-16255 *	NASA-CASE-WLP-10002	c 15	N72-17451 *	NASA-CASE-XFR-05421	c 15	N71-22994 *
NASA-CASE-NPO-15772-1	c 76	N85-29800 *	NASA-CASE-WLP-10055-1	c 35	N84-28015 *	NASA-CASE-XFR-05637	c 09	N71-19480 *
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NASA-CASE-NPO-15801-1	c 74	N85-23396 *				NASA-CASE-XFR-10856	c 05	N71-11189 *
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NASA-CASE-NPO-15890-1-CU	c 33	N85-29143 *	NASA-CASE-XAC-00086	c 09	N70-33182 *	NASA-CASE-XGS-00466	c 21	N70-34297 *
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NASA-CASE-NPO-16142-1-CU	c 35	N86-20752 *	NASA-CASE-XAC-02807	c 09	N71-23021 *	NASA-CASE-XGS-01110	c 07	N69-24334 *
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NASA-CASE-NPO-16155-1	c 44	N85-30475 *	NASA-CASE-XAC-02970	c 14	N69-39896 *	NASA-CASE-XGS-01143	c 31	N71-15647 *
NASA-CASE-NPO-16171-1-CU	c 04	N86-27270 *	NASA-CASE-XAC-02981	c 14	N71-21072 *	NASA-CASE-XGS-01155	c 10	N71-21483 *
NASA-CASE-NPO-16203-1	c 23	N85-35227 *	NASA-CASE-XAC-03107	c 23	N71-16098 *	NASA-CASE-XGS-01159	c 21	N71-10678 *
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NASA-CASE-NPO-16306-1-CU	c 76	N85-30934 *	NASA-CASE-XAC-04885	c 14	N71-23790 *	NASA-CASE-XGS-01293-1	c 35	N79-33450 *
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NASA-CASE-NPO-16423-1-CU	c 37	N87-21334 *	NASA-CASE-XAC-05706	c 05	N71-12342 *	NASA-CASE-XGS-01504	c 16	N70-41578 *
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NASA-CASE-NPO-16462-1-CU	c 60	N86-24225 *	NASA-CASE-XAC-06302	c 08	N71-19763 *	NASA-CASE-XGS-01587	c 14	N71-15962 *
NASA-CASE-NPO-16464-1-CU	c 60	N86-24224 *	NASA-CASE-XAC-06956	c 15	N71-21177 *	NASA-CASE-XGS-01590	c 07	N71-12392 *
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NASA-CASE-NPO-16479-1-CU	c 35	N86-32695 *	NASA-CASE-XAC-08494	c 30	N71-15990 *	NASA-CASE-XGS-01654	c 31	N71-24750 *
NASA-CASE-NPO-16494-1-CU	c 34	N85-29182 *	NASA-CASE-XAC-08972	c 02	N71-20570 *	NASA-CASE-XGS-01674	c 03	N71-29129 *
NASA-CASE-NPO-16497-1-CU	c 36	N87-25567 *	NASA-CASE-XAC-08981	c 09	N69-39897 *	NASA-CASE-XGS-01725	c 14	N69-39982 *
NASA-CASE-NPO-16526-1-CU	c 44	N87-17399 *	NASA-CASE-XAC-09489-1	c 15	N71-26673 *	NASA-CASE-XGS-01784	c 10	N71-20782 *
NASA-CASE-NPO-16542-1-CU	c 36	N87-23960 *	NASA-CASE-XAC-10019	c 15	N71-23809 *	NASA-CASE-XGS-01812	c 07	N71-23001 *
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NASA-CASE-NPO-16558-1-CU	c 74	N87-23259 *	NASA-CASE-XAC-10608-1	c 09	N71-12517 *	NASA-CASE-XGS-01971	c 15	N71-15922 *
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NASA-CASE-NPO-16607-1-CU	c 76	N87-15883 *	NASA-CASE-XAC-11225	c 14	N69-27486 *	NASA-CASE-XGS-02171	c 09	N69-24324 *
NASA-CASE-NPO-16632-1-CU	c 32	N87-15390 *				NASA-CASE-XGS-02290	c 07	N71-28809 *
NASA-CASE-NPO-16640-1-CU	c 72	N87-21661 *	NASA-CASE-XAR-01547	c 05	N69-21473 *	NASA-CASE-XGS-02317	c 09	N71-23525 *
NASA-CASE-NPO-16675-1-CU	c 71	N86-20087 *	NASA-CASE-XAR-03786	c 09	N69-21313 *	NASA-CASE-XGS-02319	c 14	N71-22965 *
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NASA-CASE-XLA-05966	c 15	N72-12408 *	NASA-CASE-XLE-00303	c 15	N70-36535 *	NASA-CASE-XLE-04026	c 14	N71-23267 *
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NASA-CASE-XLA-06199	c 15	N71-24875 *	NASA-CASE-XLE-00335	c 14	N70-35368 *	NASA-CASE-XLE-04250	c 09	N71-20446 *
NASA-CASE-XLA-06232	c 25	N71-20563 *	NASA-CASE-XLE-00342	c 28	N70-37980 *	NASA-CASE-XLE-04501	c 09	N71-23190 *
NASA-CASE-XLA-06339	c 02	N71-13422 *	NASA-CASE-XLE-00345	c 15	N70-38020 *	NASA-CASE-XLE-04503	c 14	N71-24864 *
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NASA-CASE-XLA-07390	c 15	N71-18616 *	NASA-CASE-XLE-00397	c 15	N70-36492 *	NASA-CASE-XLE-04677	c 15	N71-10577 *
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NASA-CASE-XLA-07424	c 14	N71-18482 *	NASA-CASE-XLE-00454	c 23	N71-17802 *	NASA-CASE-XLE-04788	c 09	N71-22987 *
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NASA-CASE-XLA-08646	c 14	N71-17586 *	NASA-CASE-XLE-00787	c 14	N71-21090 *	NASA-CASE-XLE-06773	c 15	N71-23817 *
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NASA-CASE-XLA-08916	c 15	N71-29018 *	NASA-CASE-XLE-01015	c 03	N69-39898 *	NASA-CASE-XLE-08569	c 03	N71-23449 *
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NASA-CASE-XLA-09346	c 15	N71-28740 *	NASA-CASE-XLE-01246	c 14	N71-10797 *	NASA-CASE-XLE-09475-1	c 33	N71-15568 *
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NASA-CASE-XLE-103477-1	c 28	N71-20330 *	NASA-CASE-XMF-03248	c 11	N71-10604 *	NASA-CASE-XMS-01108	c 15	N69-24322 *	#
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NASA-CASE-XLE-10466	c 17	N69-25147 *	NASA-CASE-XMF-03290	c 15	N71-23567 *	NASA-CASE-XMS-01177	c 05	N71-19440 *	
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NASA-CASE-XMF-02107	c 15	N71-10809 *	NASA-CASE-XMF-08674	c 06	N71-28807 *	NASA-CASE-XMS-04928	c 54	N78-17679 *	
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NASA-CASE-XNP-09776	c 09	N69-39929 *	US-PATENT-APPL-SN-041387	c 05	N87-24460 *	US-PATENT-APPL-SN-100996	c 08	N73-13187 *
NASA-CASE-XNP-09785	c 08	N69-21928 *	US-PATENT-APPL-SN-041388	c 74	N87-24984 *	US-PATENT-APPL-SN-101029	c 31	N70-38676 *
NASA-CASE-XNP-09802	c 33	N71-15641 *	US-PATENT-APPL-SN-043911	c 05	N82-26277 *	US-PATENT-APPL-SN-101214	c 14	N73-26430 *
NASA-CASE-XNP-09808	c 09	N71-12518 *	US-PATENT-APPL-SN-043912	c 43	N81-17499 *	US-PATENT-APPL-SN-101354	c 10	N73-16205 *
NASA-CASE-XNP-09830	c 14	N71-26266 *	US-PATENT-APPL-SN-043913	c 54	N81-27806 *	US-PATENT-APPL-SN-10161	c 33	N72-20915 *
NASA-CASE-XNP-09832	c 30	N71-23723 *	US-PATENT-APPL-SN-043941	c 44	N81-19558 *	US-PATENT-APPL-SN-102001	c 36	N82-16396 *
NASA-CASE-XNP-10007-1	c 46	N74-23068 *	US-PATENT-APPL-SN-043942	c 06	N82-16075 *	US-PATENT-APPL-SN-102002	c 18	N81-29152 *
NASA-CASE-XNP-10475	c 15	N71-24679 *	US-PATENT-APPL-SN-043943	c 33	N82-24419 *	US-PATENT-APPL-SN-102003	c 26	N82-29415 *
NASA-CASE-XNP-10830	c 07	N71-11281 *	US-PATENT-APPL-SN-043944	c 24	N82-24296 *	US-PATENT-APPL-SN-102003	c 26	N82-30371 *
NASA-CASE-XNP-10843	c 07	N71-11267 *	US-PATENT-APPL-SN-043945	c 47	N82-24779 *	US-PATENT-APPL-SN-102004	c 37	N81-26447 *
NASA-CASE-XNP-10854	c 10	N71-26331 *	US-PATENT-APPL-SN-044180	c 35	N87-25558 *	US-PATENT-APPL-SN-102412	c 25	N72-33696 *
			US-PATENT-APPL-SN-044181	c 37	N87-25587 *	US-PATENT-APPL-SN-102593	c 37	N82-16408 *
NASA-TM-76884	c 24	N85-25436 *	US-PATENT-APPL-SN-044183	c 27	N87-25473 *	US-PATENT-APPL-SN-103077	c 25	N72-32688 *
			US-PATENT-APPL-SN-044431	c 33	N81-27395 *	US-PATENT-APPL-SN-103078	c 15	N73-12486 *
US-PATENT-APPL-SN-003676	c 02	N87-23587 *	US-PATENT-APPL-SN-044432	c 52	N81-20703 *	US-PATENT-APPL-SN-103091	c 37	N74-23070 *
US-PATENT-APPL-SN-003693	c 52	N81-14612 *	US-PATENT-APPL-SN-045984	c 36	N87-25570 *	US-PATENT-APPL-SN-103229	c 14	N72-22439 *
US-PATENT-APPL-SN-006952	c 27	N81-14077 *	US-PATENT-APPL-SN-046739	c 54	N81-24724 *	US-PATENT-APPL-SN-103230	c 15	N73-14468 *
US-PATENT-APPL-SN-007083	c 26	N80-32484 *	US-PATENT-APPL-SN-051269	c 33	N81-24338 *	US-PATENT-APPL-SN-103239	c 09	N72-25251 *
US-PATENT-APPL-SN-008199	c 25	N87-23713 *	US-PATENT-APPL-SN-051270	c 32	N80-32604 *	US-PATENT-APPL-SN-103551	c 31	N73-14854 *
US-PATENT-APPL-SN-008207	c 32	N80-23524 *	US-PATENT-APPL-SN-051271	c 33	N81-26359 *	US-PATENT-APPL-SN-103836	c 37	N81-24443 *
US-PATENT-APPL-SN-008208	c 37	N81-17432 *	US-PATENT-APPL-SN-051274	c 34	N81-26402 *	US-PATENT-APPL-SN-104047	c 15	N72-31483 *
US-PATENT-APPL-SN-008209	c 32	N81-25278 *	US-PATENT-APPL-SN-051275	c 44	N82-24640 *	US-PATENT-APPL-SN-104048	c 31	N73-14855 *
US-PATENT-APPL-SN-008210	c 05	N81-26114 *	US-PATENT-APPL-SN-051276	c 33	N81-33404 *	US-PATENT-APPL-SN-104187	c 14	N70-36618 *
US-PATENT-APPL-SN-008211	c 74	N81-17887 *	US-PATENT-APPL-SN-051426	c 05	N87-25321 *	US-PATENT-APPL-SN-104188	c 09	N70-34819 *
US-PATENT-APPL-SN-008212	c 44	N80-24741 *	US-PATENT-APPL-SN-052940	c 37	N87-25583 *	US-PATENT-APPL-SN-104346	c 14	N73-28488 *
US-PATENT-APPL-SN-008242	c 27	N87-23737 *	US-PATENT-APPL-SN-052941	c 35	N87-25561 *	US-PATENT-APPL-SN-104884	c 15	N72-33476 *
US-PATENT-APPL-SN-008895	c 08	N87-23630 *	US-PATENT-APPL-SN-053566	c 09	N82-24212 *	US-PATENT-APPL-SN-104885	c 14	N73-24472 *
US-PATENT-APPL-SN-009886	c 31	N80-32583 *	US-PATENT-APPL-SN-053569	c 35	N81-19426 *	US-PATENT-APPL-SN-105518	c 23	N71-15978 *
US-PATENT-APPL-SN-009887	c 28	N81-14103 *	US-PATENT-APPL-SN-053571	c 31	N81-19343 *	US-PATENT-APPL-SN-106106	c 91	N74-13130 *
US-PATENT-APPL-SN-009888	c 37	N81-14320 *	US-PATENT-APPL-SN-053572	c 32	N82-23376 *	US-PATENT-APPL-SN-106118	c 32	N80-16261 *
US-PATENT-APPL-SN-009889	c 33	N81-27396 *	US-PATENT-APPL-SN-053652	c 33	N82-18494 *	US-PATENT-APPL-SN-106119	c 35	N82-15381 *
US-PATENT-APPL-SN-010942	c 37	N87-25575 *	US-PATENT-APPL-SN-054501	c 23	N82-16174 *	US-PATENT-APPL-SN-106135	c 28	N70-34294 *
US-PATENT-APPL-SN-010943	c 35	N87-25559 *	US-PATENT-APPL-SN-054503	c 37	N87-25585 *	US-PATENT-APPL-SN-106136	c 33	N82-26572 *
US-PATENT-APPL-SN-010949	c 35	N87-24682 *	US-PATENT-APPL-SN-056930	c 37	N87-25586 *	US-PATENT-APPL-SN-106188	c 27	N80-16163 *
US-PATENT-APPL-SN-010950	c 37	N87-25577 *	US-PATENT-APPL-SN-057465	c 37	N81-17436 *	US-PATENT-APPL-SN-106192	c 34	N83-28356 *
US-PATENT-APPL-SN-011693	c 27	N87-24575 *	US-PATENT-APPL-SN-057466	c 71	N81-15767 *	US-PATENT-APPL-SN-106424	c 17	N73-24569 *
US-PATENT-APPL-SN-011737	c 27	N81-14078 *	US-PATENT-APPL-SN-057526	c 52	N81-25662 *	US-PATENT-APPL-SN-106465	c 30	N73-12884 *
US-PATENT-APPL-SN-013769	c 18	N87-24524 *	US-PATENT-APPL-SN-060196	c 32	N87-29178 *	US-PATENT-APPL-SN-107298	c 32	N73-13921 *
US-PATENT-APPL-SN-013801	c 05	N87-25320 *	US-PATENT-APPL-SN-060200	c 09	N87-25335 *	US-PATENT-APPL-SN-107376	c 15	N73-25513 *
US-PATENT-APPL-SN-013802	c 35	N87-25556 *	US-PATENT-APPL-SN-060201	c 62	N87-25803 *	US-PATENT-APPL-SN-107379	c 10	N72-33230 *
US-PATENT-APPL-SN-014663	c 31	N81-25259 *	US-PATENT-APPL-SN-060435	c 44	N81-24520 *	US-PATENT-APPL-SN-107380	c 28	N73-13773 *
US-PATENT-APPL-SN-014664	c 44	N81-14389 *	US-PATENT-APPL-SN-060449	c 07	N82-32366 *	US-PATENT-APPL-SN-107659	c 23	N73-20741 *
US-PATENT-APPL-SN-015983	c 02	N80-28300 *	US-PATENT-APPL-SN-061182	c 27	N87-25478 *	US-PATENT-APPL-SN-107866	c 17	N70-36616 *
US-PATENT-APPL-SN-015995	c 08	N81-26152 *	US-PATENT-APPL-SN-061327	c 32	N83-13323 *	US-PATENT-APPL-SN-107870	c 15	N70-36411 *
US-PATENT-APPL-SN-015996	c 08	N81-24106 *	US-PATENT-APPL-SN-061555	c 44	N81-29524 *	US-PATENT-APPL-SN-108107	c 37	N82-18601 *
US-PATENT-APPL-SN-017885	c 32	N79-19195 *	US-PATENT-APPL-SN-061556	c 35	N81-19427 *	US-PATENT-APPL-SN-10812	c 28	N70-40367 *
US-PATENT-APPL-SN-017886	c 33	N81-33405 *	US-PATENT-APPL-SN-061822	c 74	N83-19597 *	US-PATENT-APPL-SN-10827	c 14	N72-28436 *
US-PATENT-APPL-SN-017887	c 33	N81-26358 *	US-PATENT-APPL-SN-063354	c 70	N87-25822 *	US-PATENT-APPL-SN-108810	c 33	N77-22386 *
US-PATENT-APPL-SN-017888	c 51	N80-16715 *	US-PATENT-APPL-SN-063557	c 37	N87-25584 *	US-PATENT-APPL-SN-108824	c 31	N73-13898 *
US-PATENT-APPL-SN-017889	c 02	N84-28732 *	US-PATENT-APPL-SN-065676	c 35	N80-18364 *	US-PATENT-APPL-SN-109789	c 09	N70-34596 *
US-PATENT-APPL-SN-017890	c 33	N81-15192 *	US-PATENT-APPL-SN-065676	c 44	N81-12542 *	US-PATENT-APPL-SN-110402	c 09	N72-27226 *
US-PATENT-APPL-SN-019541	c 02	N81-14968 *	US-PATENT-APPL-SN-066450	c 29	N87-25489 *	US-PATENT-APPL-SN-110591	c 15	N70-39896 *
US-PATENT-APPL-SN-021100	c 72	N87-25829 *	US-PATENT-APPL-SN-067595	c 08	N82-24205 *	US-PATENT-APPL-SN-111436	c 33	N82-26569 *
US-PATENT-APPL-SN-022298	c 31	N87-25496 *	US-PATENT-APPL-SN-067596	c 51	N81-28698 *	US-PATENT-APPL-SN-111438	c 35	N81-29407 *
US-PATENT-APPL-SN-023436	c 07	N80-32392 *	US-PATENT-APPL-SN-067844	c 34	N87-29769 *	US-PATENT-APPL-SN-111439	c 74	N81-24900 *
US-PATENT-APPL-SN-023437	c 62	N81-24779 *	US-PATENT-APPL-SN-067846	c 31	N87-29712 *	US-PATENT-APPL-SN-111998	c 21	N73-30640 *
US-PATENT-APPL-SN-023439	c 37	N81-27519 *	US-PATENT-APPL-SN-069485	c 33	N82-24420 *	US-PATENT-APPL-SN-11220	c 14	N73-30389 *
US-PATENT-APPL-SN-023484	c 33	N81-20352 *	US-PATENT-APPL-SN-070366	c 35	N82-11431 *	US-PATENT-APPL-SN-112366	c 06	N72-10138 *
US-PATENT-APPL-SN-023485	c 33	N82-24418 *	US-PATENT-APPL-SN-070771	c 27	N81-17260 *	US-PATENT-APPL-SN-112988	c 07	N72-32169 *
US-PATENT-APPL-SN-023501	c 26	N80-28492 *	US-PATENT-APPL-SN-070774	c 33	N82-26571 *	US-PATENT-APPL-SN-112998	c 14	N73-12445 *
US-PATENT-APPL-SN-025162	c 35	N81-14287 *	US-PATENT-APPL-SN-071678	c 44	N87-25630 *	US-PATENT-APPL-SN-112999	c 23	N72-25619 *
US-PATENT-APPL-SN-025163	c 74	N80-33210 *	US-PATENT-APPL-SN-072857	c 24	N82-32417 *	US-PATENT-APPL-SN-113014	c 27	N81-24257 *
US-PATENT-APPL-SN-025301	c 07	N82-26293 *	US-PATENT-APPL-SN-073477	c 36	N82-32712 *	US-PATENT-APPL-SN-113015	c 37	N82-24491 *
US-PATENT-APPL-SN-027557	c 27	N81-19296 *	US-PATENT-APPL-SN-073539	c 18	N87-29586 *	US-PATENT-APPL-SN-114772	c 04	N76-26175 *
US-PATENT-APPL-SN-027558	c 36	N81-24422 *	US-PATENT-APPL-SN-073541	c 33	N87-29737 *	US-PATENT-APPL-SN-114846	c 14	N73-12444 *
US-PATENT-APPL-SN-027559	c 44	N81-17518 *	US-PATENT-APPL-SN-073579	c 33	N82-24415 *	US-PATENT-APPL-SN-114847	c 15	N72-28496 *
US-PATENT-APPL-SN-027981	c 76	N87-25868 *	US-PATENT-APPL-SN-076643	c 32	N81-29308 *	US-PATENT-APPL-SN-114848	c 11	N72-23215 *
US-PATENT-APPL-SN-028300	c 27	N81-17259 *	US-PATENT-APPL-SN-076955	c 16	N87-29582 *	US-PATENT-APPL-SN-114849	c 09	N72-27227 *
US-PATENT-APPL-SN-028301	c 27	N81-17262 *	US-PATENT-APPL-SN-076956	c 35	N87-29799 *	US-PATENT-APPL-SN-114873	c 09	N73-28083 *
US-PATENT-APPL-SN-028301	c 27	N81-24256 *	US-PATENT-APPL-SN-078521	c 32	N81-14186 *	US-PATENT-APPL-SN-115082	c 18	N73-13562 *
US-PATENT-APPL-SN-028301	c 27	N82-24338 *	US-PATENT-APPL-SN-078611	c 04	N81-21047 *	US-PATENT-APPL-SN-115083	c 07	N73-25160 *
US-PATENT-APPL-SN-028831	c 27	N87-25475 *	US-PATENT-APPL-SN-078612	c 46	N82-12685 *	US-PATENT-APPL-SN-115134	c 06	N73-13128 *
US-PATENT-APPL-SN-028832	c 05	N87-24461 *	US-PATENT-APPL-SN-079316	c 26	N87-29650 *	US-PATENT-APPL-SN-115536	c 33	N82-24417 *
US-PATENT-APPL-SN-030831	c 25	N82-23282 *	US-PATENT-APPL-SN-079320	c 27	N87-29672 *	US-PATENT-APPL-SN-115944	c 03	N71-34044 *
US-PATENT-APPL-SN-032305	c 15	N82-24272 *	US-PATENT-APPL-SN-079913	c 05	N82-28279 *	US-PATENT-APPL-SN-116777	c 09	N73-19235 *
US-PATENT-APPL-SN-032307	c 44	N81-24519 *	US-PATENT-APPL-SN-080663	c 28	N82-18401 *	US-PATENT-APPL-SN-116778	c 09	N72-33205 *
US-PATENT-APPL-SN-032685	c 35	N87-25555 *	US-PATENT-APPL-SN-080979	c 26	N81-25188 *	US-PATENT-APPL-SN-116786	c 07	N72-25172 *
US-PATENT-APPL-SN-032818	c 37	N87-25576 *	US-PATENT-APPL-SN-090584	c 74	N81-19896 *	US-PATENT-APPL-SN-116790	c 14	N73-30388 *
US-PATENT-APPL-SN-032819	c 33	N87-27926 *	US-PATENT-APPL-SN-0914	c 28	N70-38711 *	US-PATENT-APPL-SN-117575	c 08	N73-12177 *
US-PATENT-APPL-SN-034104	c 08	N81-19130 *	US-PATENT-APPL-SN-092141	c 27	N81-29229 *	US-PATENT-APPL-SN-118169	c 14	N70-35220 *
US-PATENT-APPL-SN-034531	c 52	N81-28740 *	US-PATENT-APPL-SN-092142	c 27	N82-11206 *	US-PATENT-APPL-SN-118200	c 15	N70-34247 *
US-PATENT-APPL-SN-035401	c 31	N87-25495 *	US-PATENT-APPL-SN-092143	c 32	N82-18443 *	US-PATENT-APPL-SN-118202	c 28	N70-38710 *
US-PATENT-APPL-SN-035430	c 27	N87-25474 *	US-PATENT-APPL-SN-092145	c 37	N82-12442 *	US-PATENT-APPL-SN-118203	c 14	N70-38602 *
US-PATENT-APPL-SN-037066	c 25	N81-14016 *	US-PATENT-APPL-SN-093714	c 44	N81-29525 *	US-PATENT-APPL-SN-118269	c 33	N73-26958 *
US-PATENT-APPL-SN-037072	c 31	N81-33319 *	US-PATENT-APPL-SN-095217	c 74	N81-19898 *	US-PATENT-APPL-SN-118270	c 09	N72-25260 *
US-PATENT-APPL-SN-037194	c 37	N84-28081 *	US-PATENT-APPL-SN-096255	c 37	N80-18400 *	US-PATENT-APPL-SN-11853	c 15	N71-28951 *
US-PATENT-APPL-SN-037560	c 74	N81-29963 *	US-PATENT-APPL-SN-096255	c 37	N82-19540 *	US-PATENT-APPL-SN-119282	c 03	N72-23048 *
US-PATENT-APPL-SN-038550	c 33	N83-18996 *	US-PATENT-APPL-SN-096257	c 37	N82-24490 *	US-PATENT-APPL-SN-119334	c 26	N80-19237 *
US-PATENT-APPL-SN-038560	c 07	N87-27810 *	US-PATENT-APPL-SN-098568	c 33	N82-11357 *	US-PATENT-APPL-SN-119335	c 37	N82-24494 *
US-PATENT-APPL-SN-038980								

US-PATENT-APPL-SN-119337	c 24	N81-33235 *	US-PATENT-APPL-SN-144139	c 11	N73-26238 *	US-PATENT-APPL-SN-162101	c 14	N73-24473 *
US-PATENT-APPL-SN-119339	c 36	N82-28616 *	US-PATENT-APPL-SN-144803	c 11	N70-34844 *	US-PATENT-APPL-SN-162230	c 26	N72-28761 *
US-PATENT-APPL-SN-119340	c 35	N82-11432 *	US-PATENT-APPL-SN-144804	c 14	N70-39898 *	US-PATENT-APPL-SN-162380	c 36	N74-21091 *
US-PATENT-APPL-SN-120241	c 15	N73-24513 *	US-PATENT-APPL-SN-14488	c 09	N70-38995 *	US-PATENT-APPL-SN-163122	c 07	N83-31603 *
US-PATENT-APPL-SN-120795	c 07	N70-40202 *	US-PATENT-APPL-SN-144958	c 09	N72-20206 *	US-PATENT-APPL-SN-163151	c 74	N75-25706 *
US-PATENT-APPL-SN-120797	c 14	N70-36824 *	US-PATENT-APPL-SN-145007	c 18	N70-36400 *	US-PATENT-APPL-SN-163152	c 17	N73-27446 *
US-PATENT-APPL-SN-120803	c 08	N70-34743 *	US-PATENT-APPL-SN-145026	c 06	N72-25152 *	US-PATENT-APPL-SN-163837	c 47	N83-32232 *
US-PATENT-APPL-SN-121328	c 23	N72-11568 *	US-PATENT-APPL-SN-145027	c 06	N73-32029 *	US-PATENT-APPL-SN-163838	c 23	N82-28353 *
US-PATENT-APPL-SN-122965	c 35	N81-26431 *	US-PATENT-APPL-SN-145107	c 27	N82-16238 *	US-PATENT-APPL-SN-163840	c 37	N81-33482 *
US-PATENT-APPL-SN-122966	c 33	N82-26568 *	US-PATENT-APPL-SN-145206	c 32	N82-11336 *	US-PATENT-APPL-SN-164-584	c 24	N83-33950 *
US-PATENT-APPL-SN-122967	c 24	N81-26179 *	US-PATENT-APPL-SN-145207	c 25	N82-28368 *	US-PATENT-APPL-SN-164428	c 09	N70-35440 *
US-PATENT-APPL-SN-123253	c 10	N73-12244 *	US-PATENT-APPL-SN-145208	c 34	N83-34221 *	US-PATENT-APPL-SN-164617	c 06	N81-17057 *
US-PATENT-APPL-SN-123597	c 21	N70-34297 *	US-PATENT-APPL-SN-145209	c 27	N82-29453 *	US-PATENT-APPL-SN-165910	c 32	N83-31918 *
US-PATENT-APPL-SN-124909	c 14	N73-16483 *	US-PATENT-APPL-SN-145210	c 09	N82-23254 *	US-PATENT-APPL-SN-166487	c 11	N73-32152 *
US-PATENT-APPL-SN-125234	c 07	N73-16121 *	US-PATENT-APPL-SN-145271	c 23	N81-29160 *	US-PATENT-APPL-SN-166541	c 14	N73-13415 *
US-PATENT-APPL-SN-125235	c 51	N77-25769 *	US-PATENT-APPL-SN-145272	c 33	N82-28545 *	US-PATENT-APPL-SN-166969	c 15	N70-32429 *
US-PATENT-APPL-SN-125236	c 14	N73-26431 *	US-PATENT-APPL-SN-145273	c 51	N81-32829 *	US-PATENT-APPL-SN-166970	c 15	N70-36409 *
US-PATENT-APPL-SN-125979	c 09	N72-25255 *	US-PATENT-APPL-SN-145282	c 74	N82-24072 *	US-PATENT-APPL-SN-167719	c 16	N73-33397 *
US-PATENT-APPL-SN-126063	c 44	N83-10501 *	US-PATENT-APPL-SN-145283	c 27	N81-24256 *	US-PATENT-APPL-SN-16808	c 14	N72-22445 *
US-PATENT-APPL-SN-126064	c 33	N82-18493 *	US-PATENT-APPL-SN-145284	c 27	N82-24338 *	US-PATENT-APPL-SN-168560	c 02	N70-34856 *
US-PATENT-APPL-SN-126138	c 34	N82-13376 *	US-PATENT-APPL-SN-146217	c 14	N71-34389 *	US-PATENT-APPL-SN-168650	c 14	N73-13416 *
US-PATENT-APPL-SN-126661	c 14	N72-22437 *	US-PATENT-APPL-SN-146935	c 14	N73-20475 *	US-PATENT-APPL-SN-168943	c 54	N82-26887 *
US-PATENT-APPL-SN-127234	c 08	N70-35423 *	US-PATENT-APPL-SN-146939	c 73	N75-30876 *	US-PATENT-APPL-SN-168944	c 37	N82-32731 *
US-PATENT-APPL-SN-127480	c 37	N75-26371 *	US-PATENT-APPL-SN-146940	c 05	N73-32014 *	US-PATENT-APPL-SN-169671	c 10	N73-30205 *
US-PATENT-APPL-SN-127481	c 24	N75-28135 *	US-PATENT-APPL-SN-147099	c 14	N73-13417 *	US-PATENT-APPL-SN-169962	c 34	N74-30608 *
US-PATENT-APPL-SN-127618	c 02	N73-13008 *	US-PATENT-APPL-SN-147103	c 10	N73-20253 *	US-PATENT-APPL-SN-169977	c 14	N70-34794 *
US-PATENT-APPL-SN-127647	c 15	N73-27405 *	US-PATENT-APPL-SN-147695	c 32	N84-27952 *	US-PATENT-APPL-SN-170440	c 15	N73-13462 *
US-PATENT-APPL-SN-127915	c 02	N73-26004 *	US-PATENT-APPL-SN-147700	c 27	N82-24339 *	US-PATENT-APPL-SN-170544	c 36	N77-19416 *
US-PATENT-APPL-SN-127984	c 33	N75-27250 *	US-PATENT-APPL-SN-147922	c 28	N73-19793 *	US-PATENT-APPL-SN-170680	c 34	N74-15652 *
US-PATENT-APPL-SN-128229	c 35	N82-24471 *	US-PATENT-APPL-SN-147940	c 14	N72-10375 *	US-PATENT-APPL-SN-170681	c 10	N73-25240 *
US-PATENT-APPL-SN-128230	c 60	N84-28491 *	US-PATENT-APPL-SN-147996	c 28	N73-24784 *	US-PATENT-APPL-SN-171011	c 28	N72-18766 *
US-PATENT-APPL-SN-128419	c 14	N73-20477 *	US-PATENT-APPL-SN-147997	c 15	N72-33477 *	US-PATENT-APPL-SN-171928	c 33	N82-26570 *
US-PATENT-APPL-SN-129071	c 09	N72-25254 *	US-PATENT-APPL-SN-148001	c 14	N70-34298 *	US-PATENT-APPL-SN-171933	c 37	N82-12441 *
US-PATENT-APPL-SN-129072	c 15	N73-13467 *	US-PATENT-APPL-SN-148756	c 15	N73-13466 *	US-PATENT-APPL-SN-171934	c 35	N82-26628 *
US-PATENT-APPL-SN-129073	c 15	N73-13464 *	US-PATENT-APPL-SN-149283	c 35	N74-17153 *	US-PATENT-APPL-SN-172098	c 33	N80-29583 *
US-PATENT-APPL-SN-129379	c 37	N79-33468 *	US-PATENT-APPL-SN-149526	c 52	N82-33996 *	US-PATENT-APPL-SN-172099	c 32	N82-27558 *
US-PATENT-APPL-SN-129579	c 28	N70-35381 *	US-PATENT-APPL-SN-149983	c 31	N72-21893 *	US-PATENT-APPL-SN-172100	c 27	N82-33520 *
US-PATENT-APPL-SN-129778	c 60	N82-24839 *	US-PATENT-APPL-SN-150040	c 36	N82-29589 *	US-PATENT-APPL-SN-172459	c 06	N73-16106 *
US-PATENT-APPL-SN-129779	c 60	N82-16747 *	US-PATENT-APPL-SN-150115	c 44	N82-16475 *	US-PATENT-APPL-SN-172727	c 33	N81-26360 *
US-PATENT-APPL-SN-129780	c 44	N82-24639 *	US-PATENT-APPL-SN-15019	c 15	N72-17455 *	US-PATENT-APPL-SN-172807	c 07	N73-28012 *
US-PATENT-APPL-SN-129783	c 04	N82-23231 *	US-PATENT-APPL-SN-15020	c 14	N70-34697 *	US-PATENT-APPL-SN-173081	c 28	N70-36806 *
US-PATENT-APPL-SN-129793	c 33	N82-16340 *	US-PATENT-APPL-SN-150215	c 33	N73-25952 *	US-PATENT-APPL-SN-173178	c 33	N77-21315 *
US-PATENT-APPL-SN-129798	c 27	N81-27271 *	US-PATENT-APPL-SN-15022	c 15	N72-21465 *	US-PATENT-APPL-SN-173185	c 23	N73-13660 *
US-PATENT-APPL-SN-129799	c 27	N82-18389 *	US-PATENT-APPL-SN-15023	c 15	N70-34699 *	US-PATENT-APPL-SN-173190	c 05	N73-32015 *
US-PATENT-APPL-SN-130353	c 31	N73-14853 *	US-PATENT-APPL-SN-15024	c 09	N72-21245 *	US-PATENT-APPL-SN-173518	c 60	N82-29013 *
US-PATENT-APPL-SN-130496	c 36	N83-10417 *	US-PATENT-APPL-SN-15025	c 03	N72-20033 *	US-PATENT-APPL-SN-173519	c 44	N82-26776 *
US-PATENT-APPL-SN-132364	c 07	N83-36029 *	US-PATENT-APPL-SN-150690	c 35	N79-33450 *	US-PATENT-APPL-SN-173520	c 31	N83-27058 *
US-PATENT-APPL-SN-13266	c 05	N72-23085 *	US-PATENT-APPL-SN-151112	c 15	N70-34814 *	US-PATENT-APPL-SN-173524	c 35	N82-32659 *
US-PATENT-APPL-SN-134479	c 14	N70-33179 *	US-PATENT-APPL-SN-151114	c 31	N70-34176 *	US-PATENT-APPL-SN-173981	c 14	N70-35666 *
US-PATENT-APPL-SN-134481	c 11	N70-34815 *	US-PATENT-APPL-SN-151141	c 07	N73-26118 *	US-PATENT-APPL-SN-174684	c 33	N75-31331 *
US-PATENT-APPL-SN-134567	c 14	N73-16484 *	US-PATENT-APPL-SN-151412	c 09	N73-32112 *	US-PATENT-APPL-SN-175267	c 14	N73-28486 *
US-PATENT-APPL-SN-134568	c 06	N72-31141 *	US-PATENT-APPL-SN-151413	c 14	N73-12447 *	US-PATENT-APPL-SN-175452	c 27	N81-27272 *
US-PATENT-APPL-SN-134571	c 21	N73-13644 *	US-PATENT-APPL-SN-151598	c 03	N70-34134 *	US-PATENT-APPL-SN-175452	c 27	N85-21347 *
US-PATENT-APPL-SN-134573	c 09	N72-25257 *	US-PATENT-APPL-SN-15222	c 18	N72-25539 *	US-PATENT-APPL-SN-175453	c 85	N82-33288 *
US-PATENT-APPL-SN-134619	c 35	N79-33449 *	US-PATENT-APPL-SN-152328	c 02	N74-20646 *	US-PATENT-APPL-SN-175497	c 08	N73-28045 *
US-PATENT-APPL-SN-134658	c 15	N73-28515 *	US-PATENT-APPL-SN-152849	c 15	N73-30457 *	US-PATENT-APPL-SN-175852	c 25	N73-25760 *
US-PATENT-APPL-SN-134782	c 09	N70-36494 *	US-PATENT-APPL-SN-153240	c 33	N86-19515 *	US-PATENT-APPL-SN-175881	c 09	N73-15235 *
US-PATENT-APPL-SN-134855	c 44	N81-24521 *	US-PATENT-APPL-SN-153245	c 74	N83-29032 *	US-PATENT-APPL-SN-175981	c 16	N73-30476 *
US-PATENT-APPL-SN-135038	c 33	N83-31954 *	US-PATENT-APPL-SN-153246	c 52	N82-29863 *	US-PATENT-APPL-SN-175983	c 31	N73-32750 *
US-PATENT-APPL-SN-135039	c 33	N82-24416 *	US-PATENT-APPL-SN-153266	c 02	N70-38011 *	US-PATENT-APPL-SN-177684	c 28	N70-34860 *
US-PATENT-APPL-SN-135040	c 09	N82-11088 *	US-PATENT-APPL-SN-153542	c 28	N73-32606 *	US-PATENT-APPL-SN-177753	c 07	N74-20831 *
US-PATENT-APPL-SN-135056	c 37	N81-33483 *	US-PATENT-APPL-SN-153543	c 08	N73-26176 *	US-PATENT-APPL-SN-177985	c 35	N72-15831 *
US-PATENT-APPL-SN-135057	c 08	N82-32373 *	US-PATENT-APPL-SN-153624	c 37	N75-27376 *	US-PATENT-APPL-SN-178192	c 25	N83-33977 *
US-PATENT-APPL-SN-135058	c 25	N82-26396 *	US-PATENT-APPL-SN-154094	c 33	N72-27959 *	US-PATENT-APPL-SN-178193	c 52	N82-29862 *
US-PATENT-APPL-SN-136006	c 09	N72-28225 *	US-PATENT-APPL-SN-154663	c 02	N81-26073 *	US-PATENT-APPL-SN-178195	c 35	N82-24470 *
US-PATENT-APPL-SN-136007	c 09	N71-34212 *	US-PATENT-APPL-SN-154663	c 09	N82-29330 *	US-PATENT-APPL-SN-178213	c 25	N70-33267 *
US-PATENT-APPL-SN-136008	c 27	N74-13270 *	US-PATENT-APPL-SN-154725	c 37	N82-24493 *	US-PATENT-APPL-SN-178215	c 25	N70-34661 *
US-PATENT-APPL-SN-136085	c 17	N73-12547 *	US-PATENT-APPL-SN-154726	c 25	N81-25159 *	US-PATENT-APPL-SN-178721	c 03	N70-35408 *
US-PATENT-APPL-SN-136086	c 15	N73-19457 *	US-PATENT-APPL-SN-154930	c 44	N76-14600 *	US-PATENT-APPL-SN-178771	c 23	N75-14834 *
US-PATENT-APPL-SN-136253	c 27	N74-12814 *	US-PATENT-APPL-SN-154933	c 14	N73-25463 *	US-PATENT-APPL-SN-180230	c 33	N83-18996 *
US-PATENT-APPL-SN-136652	c 07	N84-24577 *	US-PATENT-APPL-SN-154935	c 11	N72-27262 *	US-PATENT-APPL-SN-180370	c 28	N70-33375 *
US-PATENT-APPL-SN-136660	c 31	N83-34073 *	US-PATENT-APPL-SN-155565	c 08	N73-25206 *	US-PATENT-APPL-SN-180374	c 28	N70-38181 *
US-PATENT-APPL-SN-137391	c 36	N75-31426 *	US-PATENT-APPL-SN-155584	c 09	N70-40123 *	US-PATENT-APPL-SN-180377	c 15	N70-36908 *
US-PATENT-APPL-SN-137912	c 06	N72-21105 *	US-PATENT-APPL-SN-155595	c 26	N73-28710 *	US-PATENT-APPL-SN-180379	c 21	N70-35395 *
US-PATENT-APPL-SN-138227	c 26	N72-27784 *	US-PATENT-APPL-SN-155596	c 15	N73-32361 *	US-PATENT-APPL-SN-180380	c 09	N70-38998 *
US-PATENT-APPL-SN-138229	c 15	N72-32487 *	US-PATENT-APPL-SN-155598	c 15	N73-28516 *	US-PATENT-APPL-SN-180381	c 21	N70-35089 *
US-PATENT-APPL-SN-138230	c 32	N73-20740 *	US-PATENT-APPL-SN-156724	c 21	N73-13643 *	US-PATENT-APPL-SN-180382	c 28	N70-38645 *
US-PATENT-APPL-SN-138944	c 37	N82-26672 *	US-PATENT-APPL-SN-156725	c 14	N73-27377 *	US-PATENT-APPL-SN-180384	c 11	N70-38675 *
US-PATENT-APPL-SN-139006	c 09	N70-38604 *	US-PATENT-APPL-SN-156778	c 17	N72-28535 *	US-PATENT-APPL-SN-180391	c 28	N70-38249 *
US-PATENT-APPL-SN-139007	c 28	N70-37245 *	US-PATENT-APPL-SN-156790	c 25	N82-29371 *	US-PATENT-APPL-SN-180392	c 09	N71-13530 *
US-PATENT-APPL-SN-139012	c 03	N70-38713 *	US-PATENT-APPL-SN-157150	c 37	N84-33808 *	US-PATENT-APPL-SN-180394	c 15	N70-38603 *
US-PATENT-APPL-SN-139094	c 05	N73-32011 *	US-PATENT-APPL-SN-158530	c 27	N83-19900 *	US-PATENT-APPL-SN-180395	c 15	N70-36947 *
US-PATENT-APPL-SN-139250	c 04	N73-27052 *	US-PATENT-APPL-SN-158914	c 11	N70-36913 *	US-PATENT-APPL-SN-180396	c 11	N70-38202 *
US-PATENT-APPL-SN-139528	c 03	N72-25020 *	US-PATENT-APPL-SN-158916	c 05	N70-41819 *	US-PATENT-APPL-SN-180473	c 28	N73-27699 *
US-PATENT-APPL-SN-139596	c 33	N77-13315 *	US-PATENT-APPL-SN-159804	c 11	N70-38196 *	US-PATENT-APPL-SN-180683	c 10	N73-25241 *
US-PATENT-APPL-SN-140439	c 33	N75-19518 *	US-PATENT-APPL-SN-159857	c 05	N73-26072 *	US-PATENT-APPL-SN-180963	c 14	N73-27378 *
US-PATENT-APPL-SN-140443	c 09	N70-35219 *	US-PATENT-APPL-SN-159966	c 31	N73-26876 *	US-PATENT-APPL-SN-181023	c 15	N73-26472 *
US-PATENT-APPL-SN-140509	c 09	N70-35382 *	US-PATENT-APPL-SN-160093	c 04	N78-17031 *	US-PATENT-APPL-SN-181024	c 07	N73-26117 *
US-PATENT-APPL-SN-140946	c 18	N73-26572 *	US-PATENT-APPL-SN-160859	c 32	N73-26910 *	US-PATENT-APPL-SN-181828	c 02	N70-34858 *
US-PATENT-APPL-SN-140946	c 27	N74-27037 *	US-PATENT-APPL-SN-160860	c 18	N73-32437 *	US-PATENT-APPL-SN-181829	c 31	N70-38010 *
US-PATENT-APPL-SN-141220	c 33	N70-37979 *	US-PATENT-APPL-SN-161028	c 14	N73-19420 *	US-PATENT-APPL-SN-182033	c 33	N73-27796 *
US-PATENT-APPL-SN-142583	c 37	N79-33469 *	US-PATENT-APPL-SN-161254	c 27	N82-28441 *	US-PATENT-APPL-SN-182399	c 07	N73-28013 *
US-PATENT-APPL-SN-142662	c 23	N73-13661 *	US-PATENT-APPL-SN-161255	c 28	N81-24280 *	US-PATENT-APPL-SN-182692	c 15	N70-36535 *
US-PATENT-AP								

US-PATENT-APPL-SN-182879	c 37	N82-32730 *	US-PATENT-APPL-SN-199957	c 10	N73-26229 *	US-PATENT-APPL-SN-219968	c 33	N83-27126 *
US-PATENT-APPL-SN-182880	c 37	N83-19091 *	US-PATENT-APPL-SN-200040	c 52	N74-10975 *	US-PATENT-APPL-SN-220212	c 33	N83-31952 *
US-PATENT-APPL-SN-182881	c 18	N83-28064 *	US-PATENT-APPL-SN-200085	c 26	N73-26751 *	US-PATENT-APPL-SN-220213	c 37	N85-20337 *
US-PATENT-APPL-SN-182977	c 39	N74-13131 *	US-PATENT-APPL-SN-200634	c 34	N83-27144 *	US-PATENT-APPL-SN-220214	c 44	N82-29710 *
US-PATENT-APPL-SN-182978	c 16	N73-13489 *	US-PATENT-APPL-SN-200682	c 07	N73-14130 *	US-PATENT-APPL-SN-220251	c 37	N74-15125 *
US-PATENT-APPL-SN-183240	c 06	N73-30098 *	US-PATENT-APPL-SN-200717	c 09	N73-19234 *	US-PATENT-APPL-SN-220274	c 31	N72-20840 * #
US-PATENT-APPL-SN-183707	c 23	N85-33187 *	US-PATENT-APPL-SN-200762	c 03	N73-20040 *	US-PATENT-APPL-SN-220274	c 18	N74-22136 *
US-PATENT-APPL-SN-183977	c 28	N70-38505 *	US-PATENT-APPL-SN-200770	c 09	N79-21084 *	US-PATENT-APPL-SN-220785	c 85	N74-34672 *
US-PATENT-APPL-SN-183978	c 15	N70-38020 *	US-PATENT-APPL-SN-201700	c 33	N74-17930 *	US-PATENT-APPL-SN-221093	c 17	N73-32415 *
US-PATENT-APPL-SN-184090	c 14	N73-32327 *	US-PATENT-APPL-SN-201782	c 15	N73-19458 *	US-PATENT-APPL-SN-221276	c 14	N74-19155 *
US-PATENT-APPL-SN-18427	c 09	N72-23172 *	US-PATENT-APPL-SN-201904	c 15	N73-30458 *	US-PATENT-APPL-SN-221634	c 05	N70-34857 *
US-PATENT-APPL-SN-184649	c 07	N70-36911 *	US-PATENT-APPL-SN-201904	c 37	N74-15128 *	US-PATENT-APPL-SN-221637	c 26	N70-36805 *
US-PATENT-APPL-SN-184960	c 06	N73-27980 *	US-PATENT-APPL-SN-201904	c 37	N74-21064 *	US-PATENT-APPL-SN-221670	c 35	N77-14408 *
US-PATENT-APPL-SN-185865	c 52	N80-33081 * #	US-PATENT-APPL-SN-202024	c 14	N70-34156 *	US-PATENT-APPL-SN-221685	c 35	N74-21062 *
US-PATENT-APPL-SN-185867	c 44	N82-26777 *	US-PATENT-APPL-SN-202029	c 11	N70-34786 *	US-PATENT-APPL-SN-221714	c 09	N73-32110 *
US-PATENT-APPL-SN-185868	c 24	N84-16262 *	US-PATENT-APPL-SN-202030	c 31	N71-10747 *	US-PATENT-APPL-SN-221833	c 09	N73-27150 * #
US-PATENT-APPL-SN-185869	c 71	N82-16800 *	US-PATENT-APPL-SN-202228	c 34	N82-11399 * #	US-PATENT-APPL-SN-221945	c 31	N70-36410 *
US-PATENT-APPL-SN-186700	c 32	N74-12912 *	US-PATENT-APPL-SN-202228	c 34	N85-29179 *	US-PATENT-APPL-SN-22265	c 14	N72-21405 *
US-PATENT-APPL-SN-186881	c 74	N82-30071 *	US-PATENT-APPL-SN-202750	c 19	N74-21015 *	US-PATENT-APPL-SN-223003	c 33	N70-36846 *
US-PATENT-APPL-SN-187106	c 74	N83-17305 *	US-PATENT-APPL-SN-202769	c 05	N73-27941 *	US-PATENT-APPL-SN-22320	c 14	N72-11365 *
US-PATENT-APPL-SN-187143	c 36	N74-13205 *	US-PATENT-APPL-SN-203271	c 51	N74-15778 *	US-PATENT-APPL-SN-223560	c 10	N73-32144 *
US-PATENT-APPL-SN-187262	c 15	N73-27406 *	US-PATENT-APPL-SN-203405	c 02	N73-26006 *	US-PATENT-APPL-SN-224231	c 06	N83-10040 *
US-PATENT-APPL-SN-187365	c 35	N74-15127 *	US-PATENT-APPL-SN-203409	c 28	N70-38197 *	US-PATENT-APPL-SN-224231	c 06	N84-34443 *
US-PATENT-APPL-SN-187446	c 31	N70-37924 *	US-PATENT-APPL-SN-203411	c 33	N70-34812 *	US-PATENT-APPL-SN-224232	c 36	N83-29680 *
US-PATENT-APPL-SN-18776	c 28	N70-33284 *	US-PATENT-APPL-SN-20370	c 33	N79-33393 *	US-PATENT-APPL-SN-224489	c 31	N74-18089 *
US-PATENT-APPL-SN-18780	c 12	N70-33305 *	US-PATENT-APPL-SN-204015	c 09	N70-38201 *	US-PATENT-APPL-SN-225499	c 37	N84-12491 *
US-PATENT-APPL-SN-188160	c 74	N82-19029 *	US-PATENT-APPL-SN-205047	c 15	N73-32360 *	US-PATENT-APPL-SN-225501	c 44	N82-28780 *
US-PATENT-APPL-SN-188594	c 15	N70-34967 *	US-PATENT-APPL-SN-205470	c 08	N71-18752 *	US-PATENT-APPL-SN-226476	c 10	N73-32143 *
US-PATENT-APPL-SN-188836	c 35	N74-34857 *	US-PATENT-APPL-SN-205675	c 14	N73-30386 *	US-PATENT-APPL-SN-226477	c 74	N74-27866 *
US-PATENT-APPL-SN-188927	c 08	N73-32081 *	US-PATENT-APPL-SN-206266	c 76	N74-20329 *	US-PATENT-APPL-SN-226551	c 06	N73-26100 *
US-PATENT-APPL-SN-188928	c 37	N74-13178 *	US-PATENT-APPL-SN-206266	c 76	N75-25730 *	US-PATENT-APPL-SN-227682	c 14	N70-34161 *
US-PATENT-APPL-SN-189290	c 14	N73-27379 *	US-PATENT-APPL-SN-206279	c 02	N73-26005 *	US-PATENT-APPL-SN-227683	c 02	N70-36804 *
US-PATENT-APPL-SN-189375	c 18	N73-14584 *	US-PATENT-APPL-SN-206279	c 05	N76-29217 *	US-PATENT-APPL-SN-227692	c 14	N70-40003 *
US-PATENT-APPL-SN-189438	c 35	N76-15431 *	US-PATENT-APPL-SN-206506	c 33	N82-24422 *	US-PATENT-APPL-SN-227977	c 25	N76-18245 *
US-PATENT-APPL-SN-189648	c 32	N70-36536 *	US-PATENT-APPL-SN-206698	c 15	N73-30459 *	US-PATENT-APPL-SN-228049	c 37	N79-33467 *
US-PATENT-APPL-SN-18982	c 28	N72-11708 *	US-PATENT-APPL-SN-207135	c 35	N83-27184 *	US-PATENT-APPL-SN-228150	c 05	N73-32013 *
US-PATENT-APPL-SN-190316	c 17	N73-32414 *	US-PATENT-APPL-SN-207211	c 07	N73-30113 *	US-PATENT-APPL-SN-228163	c 44	N74-19693 *
US-PATENT-APPL-SN-191301	c 25	N74-12813 *	US-PATENT-APPL-SN-209478	c 07	N70-38200 *	US-PATENT-APPL-SN-228189	c 35	N74-11283 *
US-PATENT-APPL-SN-191744	c 33	N82-29538 *	US-PATENT-APPL-SN-209479	c 15	N70-34850 *	US-PATENT-APPL-SN-228190	c 23	N73-30666 *
US-PATENT-APPL-SN-191746	c 26	N81-16209 * #	US-PATENT-APPL-SN-209535	c 28	N73-24783 *	US-PATENT-APPL-SN-228229	c 27	N77-31308 *
US-PATENT-APPL-SN-191746	c 26	N82-30371 *	US-PATENT-APPL-SN-20960	c 15	N72-17453 *	US-PATENT-APPL-SN-228507	c 11	N70-38182 *
US-PATENT-APPL-SN-191748	c 35	N82-31659 *	US-PATENT-APPL-SN-209618	c 33	N75-19520 *	US-PATENT-APPL-SN-228569	c 14	N71-16014 *
US-PATENT-APPL-SN-192016	c 03	N70-36778 *	US-PATENT-APPL-SN-209618	c 33	N75-25041 *	US-PATENT-APPL-SN-229128	c 14	N73-28490 *
US-PATENT-APPL-SN-192016	c 10	N73-20254 *	US-PATENT-APPL-SN-209801	c 08	N70-40125 *	US-PATENT-APPL-SN-229143	c 09	N72-21248 * #
US-PATENT-APPL-SN-192141	c 07	N73-24176 *	US-PATENT-APPL-SN-210405	c 74	N84-11921 *	US-PATENT-APPL-SN-229143	c 33	N77-26387 *
US-PATENT-APPL-SN-192803	c 07	N73-22076 * #	US-PATENT-APPL-SN-210491	c 02	N81-19016 * #	US-PATENT-APPL-SN-229231	c 35	N83-34272 *
US-PATENT-APPL-SN-192803	c 35	N76-16391 *	US-PATENT-APPL-SN-210498	c 35	N84-12444 *	US-PATENT-APPL-SN-229233	c 27	N83-31855 *
US-PATENT-APPL-SN-192970	c 23	N73-30665 *	US-PATENT-APPL-SN-210506	c 39	N83-32081 *	US-PATENT-APPL-SN-229239	c 31	N83-31897 *
US-PATENT-APPL-SN-193456	c 10	N73-25243 *	US-PATENT-APPL-SN-210632	c 26	N83-10170 *	US-PATENT-APPL-SN-229286	c 33	N71-29052 *
US-PATENT-APPL-SN-193671	c 15	N73-12488 *	US-PATENT-APPL-SN-211332	c 02	N74-10034 *	US-PATENT-APPL-SN-229287	c 35	N78-29421 *
US-PATENT-APPL-SN-193672	c 54	N74-14845 *	US-PATENT-APPL-SN-211411	c 11	N73-20267 *	US-PATENT-APPL-SN-229354	c 62	N74-14920 *
US-PATENT-APPL-SN-193814	c 14	N73-30393 *	US-PATENT-APPL-SN-211464	c 28	N70-36910 *	US-PATENT-APPL-SN-229413	c 14	N73-32323 *
US-PATENT-APPL-SN-193947	c 14	N73-13420 *	US-PATENT-APPL-SN-212028	c 09	N73-14214 *	US-PATENT-APPL-SN-229693	c 37	N84-22958 *
US-PATENT-APPL-SN-193980	c 31	N74-13177 *	US-PATENT-APPL-SN-212165	c 14	N73-25460 *	US-PATENT-APPL-SN-229916	c 46	N74-13011 *
US-PATENT-APPL-SN-195061	c 05	N73-25125 *	US-PATENT-APPL-SN-212173	c 02	N71-13421 *	US-PATENT-APPL-SN-230613	c 05	N83-27975 *
US-PATENT-APPL-SN-195223	c 35	N83-21311 *	US-PATENT-APPL-SN-212174	c 15	N70-34859 *	US-PATENT-APPL-SN-23132	c 08	N72-22163 *
US-PATENT-APPL-SN-195226	c 31	N83-31895 *	US-PATENT-APPL-SN-212496	c 03	N70-36803 *	US-PATENT-APPL-SN-231520	c 27	N71-29155 *
US-PATENT-APPL-SN-195227	c 74	N83-32577 *	US-PATENT-APPL-SN-212497	c 11	N71-28779 *	US-PATENT-APPL-SN-231543	c 07	N83-20944 *
US-PATENT-APPL-SN-195228	c 74	N83-10900 *	US-PATENT-APPL-SN-21263	c 01	N71-22217 * #	US-PATENT-APPL-SN-231604	c 28	N70-39925 *
US-PATENT-APPL-SN-195346	c 15	N70-36492 *	US-PATENT-APPL-SN-212900	c 14	N72-20176 *	US-PATENT-APPL-SN-231662	c 14	N73-30392 *
US-PATENT-APPL-SN-195347	c 31	N70-34135 *	US-PATENT-APPL-SN-212921	c 07	N73-20176 *	US-PATENT-APPL-SN-232021	c 04	N74-13420 *
US-PATENT-APPL-SN-195547	c 32	N83-18975 *	US-PATENT-APPL-SN-212949	c 35	N83-35338 *	US-PATENT-APPL-SN-232318	c 11	N71-15960 *
US-PATENT-APPL-SN-19572	c 35	N77-27368 *	US-PATENT-APPL-SN-212977	c 15	N73-30460 *	US-PATENT-APPL-SN-232914	c 15	N70-36412 *
US-PATENT-APPL-SN-19585	c 15	N72-25455 *	US-PATENT-APPL-SN-213004	c 14	N73-19421 *	US-PATENT-APPL-SN-233098	c 12	N73-25262 *
US-PATENT-APPL-SN-196399	c 07	N73-25161 *	US-PATENT-APPL-SN-213836	c 15	N70-38601 *	US-PATENT-APPL-SN-233173	c 12	N73-28144 *
US-PATENT-APPL-SN-196877	c 35	N84-17555 *	US-PATENT-APPL-SN-213949	c 07	N73-20175 *	US-PATENT-APPL-SN-233269	c 76	N82-30105 *
US-PATENT-APPL-SN-196898	c 38	N74-15130 *	US-PATENT-APPL-SN-214006	c 37	N74-18126 *	US-PATENT-APPL-SN-233270	c 52	N83-27578 *
US-PATENT-APPL-SN-196931	c 35	N74-17885 *	US-PATENT-APPL-SN-214084	c 37	N74-18123 *	US-PATENT-APPL-SN-233271	c 27	N83-34043 *
US-PATENT-APPL-SN-196970	c 15	N73-33383 *	US-PATENT-APPL-SN-214086	c 14	N73-30395 *	US-PATENT-APPL-SN-233519	c 20	N74-13502 *
US-PATENT-APPL-SN-197183	c 02	N76-22154 *	US-PATENT-APPL-SN-214089	c 35	N74-21018 *	US-PATENT-APPL-SN-233587	c 16	N72-22520 * #
US-PATENT-APPL-SN-197548	c 09	N70-34502 *	US-PATENT-APPL-SN-214361	c 37	N83-32067 *	US-PATENT-APPL-SN-233743	c 37	N74-13179 *
US-PATENT-APPL-SN-197551	c 31	N70-34296 *	US-PATENT-APPL-SN-21508	c 08	N72-20176 *	US-PATENT-APPL-SN-234222	c 34	N85-21568 *
US-PATENT-APPL-SN-197553	c 08	N70-34778 *	US-PATENT-APPL-SN-21644	c 05	N72-22092 *	US-PATENT-APPL-SN-234223	c 35	N83-21312 *
US-PATENT-APPL-SN-197554	c 14	N70-35368 *	US-PATENT-APPL-SN-216710	c 12	N70-38997 *	US-PATENT-APPL-SN-234224	c 36	N83-34304 *
US-PATENT-APPL-SN-197689	c 31	N74-14133 *	US-PATENT-APPL-SN-216711	c 03	N70-34157 *	US-PATENT-APPL-SN-234225	c 33	N83-36357 *
US-PATENT-APPL-SN-197689	c 31	N75-13111 *	US-PATENT-APPL-SN-216939	c 14	N70-40400 *	US-PATENT-APPL-SN-234568	c 28	N70-34788 *
US-PATENT-APPL-SN-197870	c 14	N73-32322 *	US-PATENT-APPL-SN-217213	c 37	N74-11301 *	US-PATENT-APPL-SN-235162	c 08	N71-12501 *
US-PATENT-APPL-SN-198093	c 39	N83-20280 *	US-PATENT-APPL-SN-21732	c 15	N70-26819 * #	US-PATENT-APPL-SN-235266	c 26	N73-32571 *
US-PATENT-APPL-SN-198285	c 09	N73-13208 *	US-PATENT-APPL-SN-217336	c 27	N82-29456 *	US-PATENT-APPL-SN-235268	c 36	N74-15145 *
US-PATENT-APPL-SN-198289	c 14	N73-32326 *	US-PATENT-APPL-SN-218585	c 27	N82-24340 *	US-PATENT-APPL-SN-235269	c 09	N73-30181 *
US-PATENT-APPL-SN-198355	c 05	N72-15098 * #	US-PATENT-APPL-SN-218586	c 36	N81-22344 * #	US-PATENT-APPL-SN-235295	c 09	N73-30185 *
US-PATENT-APPL-SN-198362	c 14	N73-28489 *	US-PATENT-APPL-SN-218587	c 27	N82-28440 *	US-PATENT-APPL-SN-23532	c 07	N72-21117 *
US-PATENT-APPL-SN-198379	c 15	N73-32359 *	US-PATENT-APPL-SN-218588	c 27	N82-33521 *	US-PATENT-APPL-SN-235338	c 71	N74-31148 *
US-PATENT-APPL-SN-198472	c 27	N74-12812 *	US-PATENT-APPL-SN-218965	c 10	N73-32145 *	US-PATENT-APPL-SN-235472	c 60	N84-28492 *
US-PATENT-APPL-SN-198763	c 31	N74-18124 *	US-PATENT-APPL-SN-21906	c 09	N72-17157 *	US-PATENT-APPL-SN-235588	c 28	N71-28928 *
US-PATENT-APPL-SN-198763	c 31	N74-32920 *	US-PATENT-APPL-SN-219435	c 24	N74-27035 *	US-PATENT-APPL-SN-235796	c 35	N82-28604 *
US-PATENT-APPL-SN-198885	c 05	N73-27062 *	US-PATENT-APPL-SN-219436	c 15	N72-21489 * #	US-PATENT-APPL-SN-235797	c 44	N83-32175 *
US-PATENT-APPL-SN-199199	c 25	N71-29184 *	US-PATENT-APPL-SN-219590	c 06	N73-32030 *	US-PATENT-APPL-SN-235868	c 34	N83-29625 *
US-PATENT-APPL-SN-199202	c 14	N70-40239 *	US-PATENT-APPL-SN-219640	c 74	N83-13978 *	US-PATENT-APPL-SN-235957	c 14	N73-27376 * #
US-PATENT-APPL-SN-19971	c 09	N70-33312 *	US-PATENT-APPL-SN-219677	c 44	N82-31764 *	US-PATENT-APPL-SN-235962	c 36	N74-11313 *
US-PATENT-APPL-SN-199765	c 33	N81-12330 * #	US-PATENT-APPL-SN-219678	c 44	N82-29709 *	US-PATENT-APPL-SN-236052	c 14	N72-25428 * #
US-PATENT-APPL-SN-199766	c 36	N84-28065 *	US-PATENT-APPL-SN-219680	c 27	N82-28442 *	US-PATENT-APPL-SN-236281	c 09	N73-20232 *
US-PATENT-APPL-SN-199767	c 33	N83-16626 *	US-PATENT-APPL-SN-219681	c 24	N82-29362 *	US-PATENT-APPL-SN-236285	c 08	N

US-PATENT-APPL-SN-237029	c 09	N73-32108 *	US-PATENT-APPL-SN-251609	c 05	N73-30078 *	US-PATENT-APPL-SN-269222	c 15	N70-38225 *
US-PATENT-APPL-SN-237491	c 05	N75-12930 *	US-PATENT-APPL-SN-251621	c 16	N73-32391 *	US-PATENT-APPL-SN-269450	c 36	N76-18427 *
US-PATENT-APPL-SN-237694	c 35	N74-11284 *	US-PATENT-APPL-SN-251752	c 24	N74-30001 *	US-PATENT-APPL-SN-270118	c 33	N71-17610 *
US-PATENT-APPL-SN-238047	c 33	N74-12951 *	US-PATENT-APPL-SN-251755	c 28	N70-39895 *	US-PATENT-APPL-SN-270763	c 36	N84-14509 *
US-PATENT-APPL-SN-238257	c 07	N84-33410 *	US-PATENT-APPL-SN-252259	c 33	N70-34545 *	US-PATENT-APPL-SN-271821	c 15	N71-10778 *
US-PATENT-APPL-SN-238263	c 35	N74-10415 *	US-PATENT-APPL-SN-253249	c 33	N74-11050 *	US-PATENT-APPL-SN-271822	c 15	N71-15967 *
US-PATENT-APPL-SN-238264	c 37	N74-21061 *	US-PATENT-APPL-SN-253405	c 10	N73-26228 *	US-PATENT-APPL-SN-271823	c 27	N71-28929 *
US-PATENT-APPL-SN-238264	c 37	N74-32921 *	US-PATENT-APPL-SN-253725	c 35	N74-13129 *	US-PATENT-APPL-SN-271824	c 07	N71-21476 *
US-PATENT-APPL-SN-238264	c 37	N76-15461 *	US-PATENT-APPL-SN-253774	c 25	N70-36946 *	US-PATENT-APPL-SN-271951	c 35	N74-15092 *
US-PATENT-APPL-SN-238421	c 28	N71-29153 *	US-PATENT-APPL-SN-254173	c 35	N75-13213 *	US-PATENT-APPL-SN-272152	c 27	N83-29388 *
US-PATENT-APPL-SN-238765	c 44	N83-14693 *	US-PATENT-APPL-SN-254177	c 10	N73-26230 *	US-PATENT-APPL-SN-272233	c 44	N81-27615 *
US-PATENT-APPL-SN-238786	c 37	N83-26078 *	US-PATENT-APPL-SN-254323	c 35	N76-15434 *	US-PATENT-APPL-SN-272234	c 25	N83-13188 *
US-PATENT-APPL-SN-238790	c 44	N82-29708 *	US-PATENT-APPL-SN-254575	c 25	N83-10126 *	US-PATENT-APPL-SN-272406	c 33	N84-14422 *
US-PATENT-APPL-SN-238791	c 71	N84-14873 *	US-PATENT-APPL-SN-254688	c 52	N83-27577 *	US-PATENT-APPL-SN-272407	c 52	N83-21785 *
US-PATENT-APPL-SN-238826	c 28	N77-10213 *	US-PATENT-APPL-SN-254847	c 15	N71-22874 *	US-PATENT-APPL-SN-272837	c 71	N83-36846 *
US-PATENT-APPL-SN-238887	c 37	N81-22360 *	US-PATENT-APPL-SN-254887	c 08	N72-21197 *	US-PATENT-APPL-SN-273222	c 33	N74-27683 *
US-PATENT-APPL-SN-238888	c 37	N84-28082 *	US-PATENT-APPL-SN-254888	c 08	N72-25206 *	US-PATENT-APPL-SN-273240	c 35	N74-16135 *
US-PATENT-APPL-SN-239573	c 33	N74-10223 *	US-PATENT-APPL-SN-255132	c 14	N71-15598 *	US-PATENT-APPL-SN-273400	c 15	N72-20442 *
US-PATENT-APPL-SN-239574	c 09	N73-32107 *	US-PATENT-APPL-SN-256317	c 52	N74-26626 *	US-PATENT-APPL-SN-273519	c 35	N75-25122 *
US-PATENT-APPL-SN-239575	c 09	N74-19528 *	US-PATENT-APPL-SN-256484	c 06	N70-34143 *	US-PATENT-APPL-SN-273534	c 09	N70-38712 *
US-PATENT-APPL-SN-239576	c 33	N74-14935 *	US-PATENT-APPL-SN-256493	c 20	N77-17149 *	US-PATENT-APPL-SN-274065	c 16	N71-28963 *
US-PATENT-APPL-SN-239577	c 35	N74-13132 *	US-PATENT-APPL-SN-257346	c 15	N70-36901 *	US-PATENT-APPL-SN-274348	c 60	N76-18800 *
US-PATENT-APPL-SN-239803	c 70	N74-13436 *	US-PATENT-APPL-SN-258152	c 35	N74-15090 *	US-PATENT-APPL-SN-274360	c 32	N74-20809 *
US-PATENT-APPL-SN-240760	c 15	N71-16075 *	US-PATENT-APPL-SN-258171	c 34	N74-27744 *	US-PATENT-APPL-SN-274705	c 44	N83-21503 *
US-PATENT-APPL-SN-241061	c 06	N72-27151 *	US-PATENT-APPL-SN-258331	c 03	N73-31988 *	US-PATENT-APPL-SN-274706	c 44	N83-21504 *
US-PATENT-APPL-SN-241061	c 06	N73-33076 *	US-PATENT-APPL-SN-258623	c 60	N83-32342 *	US-PATENT-APPL-SN-274708	c 35	N84-22929 *
US-PATENT-APPL-SN-241085	c 14	N70-40238 *	US-PATENT-APPL-SN-258931	c 14	N70-40203 *	US-PATENT-APPL-SN-275118	c 35	N74-18088 *
US-PATENT-APPL-SN-241154	c 04	N84-27713 *	US-PATENT-APPL-SN-258932	c 05	N70-36493 *	US-PATENT-APPL-SN-275909	c 33	N85-21491 *
US-PATENT-APPL-SN-241155	c 27	N84-14324 *	US-PATENT-APPL-SN-259056	c 27	N82-29455 *	US-PATENT-APPL-SN-276076	c 72	N84-16959 *
US-PATENT-APPL-SN-24154	c 15	N70-35679 *	US-PATENT-APPL-SN-259208	c 44	N85-30474 *	US-PATENT-APPL-SN-276599	c 74	N81-19896 *
US-PATENT-APPL-SN-24154	c 15	N72-17450 *	US-PATENT-APPL-SN-259209	c 01	N83-35992 *	US-PATENT-APPL-SN-276748	c 33	N83-34189 *
US-PATENT-APPL-SN-24155	c 14	N73-26432 *	US-PATENT-APPL-SN-259210	c 32	N83-27085 *	US-PATENT-APPL-SN-276749	c 74	N84-23247 *
US-PATENT-APPL-SN-241614	c 10	N73-27171 *	US-PATENT-APPL-SN-259211	c 44	N84-14583 *	US-PATENT-APPL-SN-277404	c 05	N70-39922 *
US-PATENT-APPL-SN-241615	c 09	N73-32111 *	US-PATENT-APPL-SN-259212	c 35	N84-22931 *	US-PATENT-APPL-SN-277436	c 37	N74-25968 *
US-PATENT-APPL-SN-242027	c 52	N74-12778 *	US-PATENT-APPL-SN-259487	c 33	N70-36847 *	US-PATENT-APPL-SN-277833	c 03	N70-41580 *
US-PATENT-APPL-SN-242028	c 21	N73-30641 *	US-PATENT-APPL-SN-260087	c 21	N71-21688 *	US-PATENT-APPL-SN-277904	c 28	N74-27425 *
US-PATENT-APPL-SN-24224	c 09	N72-20200 *	US-PATENT-APPL-SN-260093	c 25	N74-26948 *	US-PATENT-APPL-SN-277961	c 33	N70-36617 *
US-PATENT-APPL-SN-242662	c 74	N74-15095 *	US-PATENT-APPL-SN-260241	c 74	N74-21304 *	US-PATENT-APPL-SN-278790	c 15	N70-34664 *
US-PATENT-APPL-SN-242790	c 06	N83-33882 *	US-PATENT-APPL-SN-261183	c 09	N74-30597 *	US-PATENT-APPL-SN-2792	c 14	N70-33386 *
US-PATENT-APPL-SN-242795	c 18	N83-20996 *	US-PATENT-APPL-SN-261912	c 14	N70-34818 *	US-PATENT-APPL-SN-279646	c 08	N71-21042 *
US-PATENT-APPL-SN-242795	c 37	N84-22957 *	US-PATENT-APPL-SN-261917	c 09	N70-40272 *	US-PATENT-APPL-SN-280029	c 35	N74-15126 *
US-PATENT-APPL-SN-242796	c 44	N83-13579 *	US-PATENT-APPL-SN-261918	c 28	N70-41447 *	US-PATENT-APPL-SN-280031	c 26	N73-26752 *
US-PATENT-APPL-SN-242797	c 74	N85-22139 *	US-PATENT-APPL-SN-262430	c 35	N74-18323 *	US-PATENT-APPL-SN-280032	c 35	N74-15093 *
US-PATENT-APPL-SN-243374	c 15	N77-10112 *	US-PATENT-APPL-SN-262596	c 14	N71-28958 *	US-PATENT-APPL-SN-280151	c 27	N83-36220 *
US-PATENT-APPL-SN-243682	c 74	N83-19596 *	US-PATENT-APPL-SN-262596	c 62	N76-31946 *	US-PATENT-APPL-SN-280152	c 54	N86-22112 *
US-PATENT-APPL-SN-243683	c 33	N81-22280 *	US-PATENT-APPL-SN-263230	c 33	N74-20860 *	US-PATENT-APPL-SN-280153	c 51	N83-17045 *
US-PATENT-APPL-SN-243683	c 33	N83-28319 *	US-PATENT-APPL-SN-263498	c 34	N74-27859 *	US-PATENT-APPL-SN-280154	c 33	N83-10345 *
US-PATENT-APPL-SN-243683	c 33	N84-14424 *	US-PATENT-APPL-SN-26375	c 02	N70-33286 *	US-PATENT-APPL-SN-280155	c 24	N84-11214 *
US-PATENT-APPL-SN-243683	c 33	N84-33660 *	US-PATENT-APPL-SN-26375	c 02	N70-34858 *	US-PATENT-APPL-SN-280305	c 34	N74-23039 *
US-PATENT-APPL-SN-243684	c 37	N84-12492 *	US-PATENT-APPL-SN-263815	c 09	N74-17955 *	US-PATENT-APPL-SN-280362	c 14	N71-28935 *
US-PATENT-APPL-SN-244158	c 32	N74-20863 *	US-PATENT-APPL-SN-263828	c 34	N83-19015 *	US-PATENT-APPL-SN-280390	c 37	N74-15128 *
US-PATENT-APPL-SN-244440	c 21	N73-19630 *	US-PATENT-APPL-SN-263829	c 05	N84-12154 *	US-PATENT-APPL-SN-280580	c 12	N71-21089 *
US-PATENT-APPL-SN-244440	c 14	N73-32320 *	US-PATENT-APPL-SN-263830	c 44	N83-28573 *	US-PATENT-APPL-SN-280776	c 14	N70-40273 *
US-PATENT-APPL-SN-244519	c 37	N74-18125 *	US-PATENT-APPL-SN-263957	c 52	N83-25346 *	US-PATENT-APPL-SN-280777	c 08	N70-41961 *
US-PATENT-APPL-SN-244523	c 31	N73-30829 *	US-PATENT-APPL-SN-264268	c 31	N78-17238 *	US-PATENT-APPL-SN-281069	c 14	N70-35394 *
US-PATENT-APPL-SN-244566	c 74	N74-20008 *	US-PATENT-APPL-SN-264378	c 24	N83-10117 *	US-PATENT-APPL-SN-28175	c 21	N70-33279 *
US-PATENT-APPL-SN-245063	c 33	N74-11049 *	US-PATENT-APPL-SN-264378	c 70	N84-28565 *	US-PATENT-APPL-SN-281875	c 25	N74-18551 *
US-PATENT-APPL-SN-245279	c 25	N74-30502 *	US-PATENT-APPL-SN-264380	c 44	N83-14692 *	US-PATENT-APPL-SN-281876	c 52	N74-20726 *
US-PATENT-APPL-SN-245571	c 07	N84-22560 *	US-PATENT-APPL-SN-264381	c 52	N84-28388 *	US-PATENT-APPL-SN-281877	c 35	N74-15146 *
US-PATENT-APPL-SN-245941	c 33	N71-17897 *	US-PATENT-APPL-SN-264381	c 52	N84-28389 *	US-PATENT-APPL-SN-281908	c 25	N75-12086 *
US-PATENT-APPL-SN-246056	c 38	N74-15395 *	US-PATENT-APPL-SN-264728	c 30	N70-40016 *	US-PATENT-APPL-SN-282129	c 24	N83-25789 *
US-PATENT-APPL-SN-246294	c 27	N82-29454 *	US-PATENT-APPL-SN-264729	c 33	N70-34540 *	US-PATENT-APPL-SN-282191	c 35	N83-29651 *
US-PATENT-APPL-SN-246295	c 27	N82-29452 *	US-PATENT-APPL-SN-264731	c 09	N70-41655 *	US-PATENT-APPL-SN-282192	c 74	N83-21949 *
US-PATENT-APPL-SN-246672	c 44	N83-10494 *	US-PATENT-APPL-SN-264735	c 28	N70-33265 *	US-PATENT-APPL-SN-282298	c 33	N85-29144 *
US-PATENT-APPL-SN-246773	c 35	N83-29650 *	US-PATENT-APPL-SN-264736	c 28	N70-36802 *	US-PATENT-APPL-SN-28235	c 10	N72-17171 *
US-PATENT-APPL-SN-246774	c 34	N83-31993 *	US-PATENT-APPL-SN-26573	c 31	N72-22874 *	US-PATENT-APPL-SN-282817	c 15	N70-40156 *
US-PATENT-APPL-SN-246777	c 45	N83-25217 *	US-PATENT-APPL-SN-266107	c 11	N71-15925 *	US-PATENT-APPL-SN-282818	c 14	N71-14996 *
US-PATENT-APPL-SN-246778	c 36	N83-35350 *	US-PATENT-APPL-SN-266253	c 04	N84-22546 *	US-PATENT-APPL-SN-283502	c 37	N74-21060 *
US-PATENT-APPL-SN-247055	c 37	N74-11300 *	US-PATENT-APPL-SN-266254	c 24	N83-13172 *	US-PATENT-APPL-SN-284245	c 33	N74-17928 *
US-PATENT-APPL-SN-247090	c 37	N74-18128 *	US-PATENT-APPL-SN-266255	c 44	N83-27344 *	US-PATENT-APPL-SN-284265	c 14	N70-34799 *
US-PATENT-APPL-SN-247136	c 14	N71-30265 *	US-PATENT-APPL-SN-266256	c 24	N83-13171 *	US-PATENT-APPL-SN-284266	c 15	N71-16077 *
US-PATENT-APPL-SN-247419	c 14	N70-36907 *	US-PATENT-APPL-SN-266687	c 32	N84-22820 *	US-PATENT-APPL-SN-284286	c 44	N84-28203 *
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US-PATENT-APPL-SN-250585	c 32	N85-21428 *	US-PATENT-APPL-SN-267768	c 70	N74-21300 *	US-PATENT-APPL-SN-289033	c 15	N73-32358 *
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US-PATENT-APPL-SN-250974	c 31	N71-15664 *	US-PATENT-APPL-SN-267935	c 71	N83-17235 *	US-PATENT-APPL-SN-289048	c 37	N74-21057 *
US-PATENT-APPL-S								

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US-PATENT-APPL-SN-290067	c 28	N70-39931 *		US-PATENT-APPL-SN-310034	c 32	N74-30524 *	US-PATENT-APPL-SN-327969	c 35	N75-13213 *
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US-PATENT-APPL-SN-293414	c 37	N84-16560 *		US-PATENT-APPL-SN-314570	c 10	N71-28960 *	US-PATENT-APPL-SN-333535	c 74	N83-36898 *
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US-PATENT-APPL-SN-29917	c 15	N73-13465 *		US-PATENT-APPL-SN-318152	c 52	N74-20728 *	US-PATENT-APPL-SN-340791	c 35	N74-26945 *
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US-PATENT-APPL-SN-300957	c 33	N71-29053 *		US-PATENT-APPL-SN-319150	c 33	N75-19519 *	US-PATENT-APPL-SN-341467	c 15	N70-39924 *
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US-PATENT-APPL-SN-301419	c 34	N76-17317 *		US-PATENT-APPL-SN-320593	c 26	N70-40015 *	US-PATENT-APPL-SN-342574	c 03	N71-20904 *
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US-PATENT-APPL-SN-304430	c 52	N74-27864 *		US-PATENT-APPL-SN-322317	c 46	N85-21846 *	US-PATENT-APPL-SN-343760	c 07	N71-28979 *
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US-PATENT-APPL-SN-305639	c 37	N74-27904 *		US-PATENT-APPL-SN-32496	c 15	N70-37925 *	US-PATENT-APPL-SN-347101	c 09	N70-41675 *
US-PATENT-APPL-SN-306652	c 33	N74-32712 *		US-PATENT-APPL-SN-325082	c 35	N83-29652 *	US-PATENT-APPL-SN-347626	c 15	N70-40204 *
US-PATENT-APPL-SN-307269	c 24	N71-10560 *		US-PATENT-APPL-SN-325083	c 33	N84-16456 *	US-PATENT-APPL-SN-347952	c 37	N75-13265 *
US-PATENT-APPL-SN-307270	c 10	N71-16030 *		US-PATENT-APPL-SN-325784	c 24	N76-14204 *	US-PATENT-APPL-SN-347953	c 05	N75-24716 *
US-PATENT-APPL-SN-307271	c 09	N71-22999 *		US-PATENT-APPL-SN-325885	c 35	N82-25484 *	US-PATENT-APPL-SN-347960	c 03	N70-39930 *
US-PATENT-APPL-SN-307714	c 03	N76-32140 *		US-PATENT-APPL-SN-325886	c 33	N83-34190 *	US-PATENT-APPL-SN-348422	c 27	N76-15311 *
US-PATENT-APPL-SN-307727	c 32	N74-20813 *		US-PATENT-APPL-SN-325931	c 37	N82-26674 *	US-PATENT-APPL-SN-348600	c 28	N71-29154 *
US-PATENT-APPL-SN-307728	c 34	N74-27861 *		US-PATENT-APPL-SN-325932	c 33	N84-16455 *	US-PATENT-APPL-SN-348787	c 33	N75-19521 *
US-PATENT-APPL-SN-307729	c 31	N74-27900 *		US-PATENT-APPL-SN-325933	c 76	N83-20789 *	US-PATENT-APPL-SN-349778	c 09	N70-40234 *
US-PATENT-APPL-SN-308007	c 44	N83-34448 *		US-PATENT-APPL-SN-326198	c 35	N75-12272 *	US-PATENT-APPL-SN-349781	c 31	N71-15647 *
US-PATENT-APPL-SN-308009	c 33	N83-36355 *		US-PATENT-APPL-SN-326298	c 14	N71-22765 *	US-PATENT-APPL-SN-349782	c 09	N71-16086 *
US-PATENT-APPL-SN-308201	c 27	N83-28240 *							

US-PATENT-APPL-SN-350473	c 07	N84-22559 *	US-PATENT-APPL-SN-366226	c 10	N71-16057 *	US-PATENT-APPL-SN-383083	c 33	N84-16453 *
US-PATENT-APPL-SN-350474	c 35	N84-22928 *	US-PATENT-APPL-SN-367132	c 32	N85-21427 *	US-PATENT-APPL-SN-383086	c 36	N85-21639 *
US-PATENT-APPL-SN-350475	c 35	N84-28017 *	US-PATENT-APPL-SN-367134	c 44	N83-34449 *	US-PATENT-APPL-SN-383384	c 06	N84-27733 *
US-PATENT-APPL-SN-350476	c 26	N84-22734 *	US-PATENT-APPL-SN-367136	c 35	N85-21596 *	US-PATENT-APPL-SN-384010	c 10	N71-28859 *
US-PATENT-APPL-SN-350477	c 35	N84-33765 *	US-PATENT-APPL-SN-367187	c 04	N84-14132 *	US-PATENT-APPL-SN-384547	c 36	N85-29264 *
US-PATENT-APPL-SN-351259	c 15	N71-10672 *	US-PATENT-APPL-SN-367268	c 05	N75-25914 *	US-PATENT-APPL-SN-384773	c 15	N76-14158 *
US-PATENT-APPL-SN-351929	c 33	N75-14957 *	US-PATENT-APPL-SN-367293	c 36	N75-19655 *	US-PATENT-APPL-SN-384811	c 15	N71-10809 *
US-PATENT-APPL-SN-351950	c 33	N75-27249 *	US-PATENT-APPL-SN-367294	c 76	N75-12810 *	US-PATENT-APPL-SN-385013	c 35	N75-19613 *
US-PATENT-APPL-SN-352381	c 20	N75-18310 *	US-PATENT-APPL-SN-367606	c 75	N75-13625 *	US-PATENT-APPL-SN-385059	c 33	N77-21315 *
US-PATENT-APPL-SN-352381	c 37	N76-14461 *	US-PATENT-APPL-SN-367606	c 75	N76-17951 *	US-PATENT-APPL-SN-385220	c 36	N85-30305 *
US-PATENT-APPL-SN-352382	c 60	N75-13539 *	US-PATENT-APPL-SN-368123	c 09	N71-10618 *	US-PATENT-APPL-SN-385520	c 14	N71-23037 *
US-PATENT-APPL-SN-352383	c 35	N75-16783 *	US-PATENT-APPL-SN-368187	c 54	N84-11758 *	US-PATENT-APPL-SN-385522	c 34	N75-33342 *
US-PATENT-APPL-SN-352400	c 26	N71-10607 *	US-PATENT-APPL-SN-368188	c 33	N84-33663 *	US-PATENT-APPL-SN-385526	c 12	N71-16031 *
US-PATENT-APPL-SN-352821	c 44	N84-28205 *	US-PATENT-APPL-SN-368189	c 18	N84-22605 *	US-PATENT-APPL-SN-385527	c 31	N71-17729 *
US-PATENT-APPL-SN-352827	c 35	N84-28015 *	US-PATENT-APPL-SN-368189	c 23	N72-22673 *	US-PATENT-APPL-SN-385530	c 09	N71-10798 *
US-PATENT-APPL-SN-352827	c 35	N85-21598 *	US-PATENT-APPL-SN-369226	c 28	N72-23810 *	US-PATENT-APPL-SN-386467	c 14	N70-40233 *
US-PATENT-APPL-SN-352831	c 35	N84-16523 *	US-PATENT-APPL-SN-369334	c 21	N71-22880 *	US-PATENT-APPL-SN-386789	c 35	N75-12271 *
US-PATENT-APPL-SN-353162	c 33	N75-26243 *	US-PATENT-APPL-SN-369336	c 09	N71-10659 *	US-PATENT-APPL-SN-386790	c 09	N75-12968 *
US-PATENT-APPL-SN-353632	c 15	N71-13789 *	US-PATENT-APPL-SN-369337	c 15	N70-41811 *	US-PATENT-APPL-SN-386793	c 35	N75-25124 *
US-PATENT-APPL-SN-353634	c 15	N70-41829 *	US-PATENT-APPL-SN-369338	c 08	N71-28925 *	US-PATENT-APPL-SN-386800	c 15	N71-21404 *
US-PATENT-APPL-SN-353637	c 02	N70-34160 *	US-PATENT-APPL-SN-369640	c 32	N70-41370 *	US-PATENT-APPL-SN-387094	c 37	N77-19457 *
US-PATENT-APPL-SN-353644	c 07	N71-23098 *	US-PATENT-APPL-SN-3696	c 10	N72-20224 *	US-PATENT-APPL-SN-387095	c 37	N75-33395 *
US-PATENT-APPL-SN-353645	c 15	N71-15922 *	US-PATENT-APPL-SN-370134	c 30	N70-40353 *	US-PATENT-APPL-SN-387266	c 35	N75-27328 *
US-PATENT-APPL-SN-354060	c 74	N76-19935 *	US-PATENT-APPL-SN-370135	c 11	N70-41677 *	US-PATENT-APPL-SN-387332	c 15	N70-33226 *
US-PATENT-APPL-SN-354126	c 37	N82-22496 *	US-PATENT-APPL-SN-370255	c 33	N75-18477 *	US-PATENT-APPL-SN-387342	c 37	N76-18457 *
US-PATENT-APPL-SN-354182	c 10	N71-20841 *	US-PATENT-APPL-SN-370271	c 32	N75-24981 *	US-PATENT-APPL-SN-387646	c 37	N85-30336 *
US-PATENT-APPL-SN-354406	c 52	N76-14757 *	US-PATENT-APPL-SN-37050	c 33	N74-26732 *	US-PATENT-APPL-SN-387647	c 33	N85-34333 *
US-PATENT-APPL-SN-354407	c 33	N74-22865 *	US-PATENT-APPL-SN-370582	c 18	N76-14186 *	US-PATENT-APPL-SN-387648	c 37	N85-21650 *
US-PATENT-APPL-SN-354408	c 35	N75-19614 *	US-PATENT-APPL-SN-370872	c 37	N74-32918 *	US-PATENT-APPL-SN-387649	c 09	N85-19990 *
US-PATENT-APPL-SN-354611	c 25	N74-26947 *	US-PATENT-APPL-SN-370989	c 23	N71-29049 *	US-PATENT-APPL-SN-387728	c 37	N84-28084 *
US-PATENT-APPL-SN-354612	c 35	N75-30504 *	US-PATENT-APPL-SN-370999	c 74	N78-15879 *	US-PATENT-APPL-SN-388023	c 10	N70-41964 *
US-PATENT-APPL-SN-355126	c 17	N71-15644 *	US-PATENT-APPL-SN-371322	c 44	N76-14600 *	US-PATENT-APPL-SN-388024	c 32	N71-17609 *
US-PATENT-APPL-SN-355129	c 14	N70-41957 *	US-PATENT-APPL-SN-371351	c 76	N84-35113 *	US-PATENT-APPL-SN-38814	c 15	N72-11385 *
US-PATENT-APPL-SN-355130	c 15	N70-40354 *	US-PATENT-APPL-SN-371352	c 52	N84-11744 *	US-PATENT-APPL-SN-38816	c 70	N74-13436 *
US-PATENT-APPL-SN-356488	c 08	N71-19544 *	US-PATENT-APPL-SN-371856	c 15	N70-42033 *	US-PATENT-APPL-SN-38816	c 74	N78-15879 *
US-PATENT-APPL-SN-356554	c 24	N75-33181 *	US-PATENT-APPL-SN-371857	c 07	N70-41680 *	US-PATENT-APPL-SN-388966	c 31	N70-41855 *
US-PATENT-APPL-SN-356555	c 37	N75-19685 *	US-PATENT-APPL-SN-372148	c 35	N74-26949 *	US-PATENT-APPL-SN-388967	c 10	N71-23271 *
US-PATENT-APPL-SN-356664	c 31	N75-12161 *	US-PATENT-APPL-SN-372149	c 37	N75-15050 *	US-PATENT-APPL-SN-389916	c 18	N75-27041 *
US-PATENT-APPL-SN-356692	c 15	N70-41371 *	US-PATENT-APPL-SN-372279	c 35	N84-28019 *	US-PATENT-APPL-SN-389929	c 33	N75-25040 *
US-PATENT-APPL-SN-357126	c 35	N74-34857 *	US-PATENT-APPL-SN-372438	c 30	N71-17788 *	US-PATENT-APPL-SN-390049	c 37	N76-16446 *
US-PATENT-APPL-SN-357312	c 27	N76-16229 *	US-PATENT-APPL-SN-372648	c 27	N71-16348 *	US-PATENT-APPL-SN-390049	c 44	N76-29700 *
US-PATENT-APPL-SN-357334	c 03	N71-12258 *	US-PATENT-APPL-SN-372727	c 31	N70-36845 *	US-PATENT-APPL-SN-390250	c 21	N70-41856 *
US-PATENT-APPL-SN-357336	c 03	N71-12259 *	US-PATENT-APPL-SN-372730	c 28	N71-28850 *	US-PATENT-APPL-SN-390251	c 07	N71-23026 *
US-PATENT-APPL-SN-357337	c 15	N71-10782 *	US-PATENT-APPL-SN-373587	c 33	N74-32711 *	US-PATENT-APPL-SN-390466	c 24	N75-13032 *
US-PATENT-APPL-SN-357340	c 23	N71-15673 *	US-PATENT-APPL-SN-373588	c 33	N75-19515 *	US-PATENT-APPL-SN-390468	c 36	N75-19652 *
US-PATENT-APPL-SN-358088	c 35	N84-33767 *	US-PATENT-APPL-SN-373591	c 31	N71-15692 *	US-PATENT-APPL-SN-391343	c 05	N69-21473 *
US-PATENT-APPL-SN-358089	c 71	N84-23233 *	US-PATENT-APPL-SN-373770	c 35	N84-34705 *	US-PATENT-APPL-SN-39185	c 16	N72-25485 *
US-PATENT-APPL-SN-358127	c 05	N71-12335 *	US-PATENT-APPL-SN-373771	c 35	N84-22934 *	US-PATENT-APPL-SN-392092	c 51	N84-28361 *
US-PATENT-APPL-SN-358398	c 36	N84-22944 *	US-PATENT-APPL-SN-373839	c 33	N84-22887 *	US-PATENT-APPL-SN-392093	c 33	N82-28549 *
US-PATENT-APPL-SN-359039	c 32	N74-30523 *	US-PATENT-APPL-SN-374421	c 27	N76-24405 *	US-PATENT-APPL-SN-392094	c 37	N85-29283 *
US-PATENT-APPL-SN-359156	c 14	N75-24794 *	US-PATENT-APPL-SN-374422	c 32	N75-24982 *	US-PATENT-APPL-SN-392096	c 02	N84-11136 *
US-PATENT-APPL-SN-359157	c 35	N74-18090 *	US-PATENT-APPL-SN-374423	c 36	N75-31427 *	US-PATENT-APPL-SN-392103	c 44	N84-28204 *
US-PATENT-APPL-SN-359382	c 32	N85-34327 *	US-PATENT-APPL-SN-374424	c 74	N75-12732 *	US-PATENT-APPL-SN-392104	c 37	N85-20338 *
US-PATENT-APPL-SN-359388	c 44	N83-32177 *	US-PATENT-APPL-SN-374441	c 35	N75-19616 *	US-PATENT-APPL-SN-392823	c 25	N74-33378 *
US-PATENT-APPL-SN-359532	c 15	N71-28959 *	US-PATENT-APPL-SN-374583	c 33	N74-29556 *	US-PATENT-APPL-SN-392944	c 76	N85-29800 *
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US-PATENT-APPL-SN-359627	c 35	N82-26631 *	US-PATENT-APPL-SN-375401	c 17	N71-16025 *	US-PATENT-APPL-SN-392969	c 09	N71-23573 *
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US-PATENT-APPL-SN-359957	c 07	N74-32418 *	US-PATENT-APPL-SN-375620	c 43	N85-21723 *	US-PATENT-APPL-SN-392973	c 07	N71-23001 *
US-PATENT-APPL-SN-359958	c 37	N74-26976 *	US-PATENT-APPL-SN-375674	c 28	N70-41582 *	US-PATENT-APPL-SN-392992	c 15	N71-23052 *
US-PATENT-APPL-SN-360180	c 17	N71-16026 *	US-PATENT-APPL-SN-375680	c 10	N71-28739 *	US-PATENT-APPL-SN-39342	c 09	N72-25252 *
US-PATENT-APPL-SN-360182	c 31	N70-36654 *	US-PATENT-APPL-SN-375682	c 31	N70-41588 *	US-PATENT-APPL-SN-39343	c 34	N74-18552 *
US-PATENT-APPL-SN-360878	c 03	N71-11051 *	US-PATENT-APPL-SN-375684	c 44	N85-21769 *	US-PATENT-APPL-SN-39344	c 14	N72-25409 *
US-PATENT-APPL-SN-361215	c 27	N84-14323 *	US-PATENT-APPL-SN-375784	c 24	N85-21266 *	US-PATENT-APPL-SN-393451	c 02	N70-42012 *
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US-PATENT-APPL-SN-361666	c 33	N75-30428 *	US-PATENT-APPL-SN-377146	c 14	N71-23041 *	US-PATENT-APPL-SN-393464	c 23	N71-21821 *
US-PATENT-APPL-SN-361711	c 24	N82-26387 *	US-PATENT-APPL-SN-377777	c 32	N70-42003 *	US-PATENT-APPL-SN-393523	c 12	N75-24774 *
US-PATENT-APPL-SN-361711	c 24	N84-16262 *	US-PATENT-APPL-SN-377780	c 11	N71-10604 *	US-PATENT-APPL-SN-393524	c 60	N76-21914 *
US-PATENT-APPL-SN-361906	c 33	N74-20861 *	US-PATENT-APPL-SN-377784	c 28	N70-41311 *	US-PATENT-APPL-SN-393525	c 31	N74-32917 *
US-PATENT-APPL-SN-361907	c 35	N74-27865 *	US-PATENT-APPL-SN-377891	c 52	N84-34913 *	US-PATENT-APPL-SN-393526	c 77	N75-20139 *
US-PATENT-APPL-SN-362145	c 32	N75-26194 *	US-PATENT-APPL-SN-377892	c 33	N83-24763 *	US-PATENT-APPL-SN-393527	c 15	N75-13007 *
US-PATENT-APPL-SN-362146	c 33	N75-18479 *	US-PATENT-APPL-SN-378080	c 12	N71-24692 *	US-PATENT-APPL-SN-393528	c 36	N75-19654 *
US-PATENT-APPL-SN-362261	c 14	N73-32325 *	US-PATENT-APPL-SN-378126	c 44	N76-18643 *	US-PATENT-APPL-SN-393581	c 54	N84-23113 *
US-PATENT-APPL-SN-362278	c 37	N78-17385 *	US-PATENT-APPL-SN-378127	c 44	N76-18641 *	US-PATENT-APPL-SN-393582	c 37	N85-21649 *
US-PATENT-APPL-SN-363130	c 25	N81-19244 *	US-PATENT-APPL-SN-378533	c 37	N84-11497 *	US-PATENT-APPL-SN-393583	c 27	N83-29392 *
US-PATENT-APPL-SN-363348	c 05	N70-41581 *	US-PATENT-APPL-SN-378535	c 74	N84-23248 *	US-PATENT-APPL-SN-393584	c 37	N85-30334 *
US-PATENT-APPL-SN-363653	c 07	N70-41331 *	US-PATENT-APPL-SN-379019	c 09	N75-12969 *	US-PATENT-APPL-SN-393585	c 37	N82-31690 *
US-PATENT-APPL-SN-363654	c 07	N70-41372 *	US-PATENT-APPL-SN-379049	c 31	N75-13111 *	US-PATENT-APPL-SN-393586	c 54	N84-28484 *
US-PATENT-APPL-SN-363691	c 20	N76-14190 *	US-PATENT-APPL-SN-379072	c 15	N71-16078 *	US-PATENT-APPL-SN-393588	c 25	N84-16276 *
US-PATENT-APPL-SN-364041	c 76	N85-30923 *	US-PATENT-APPL-SN-379417	c 02	N70-41863 *	US-PATENT-APPL-SN-394149	c 35	N75-25123 *
US-PATENT-APPL-SN-364072	c 70	N84-28565 *	US-PATENT-APPL-SN-379601	c 71	N85-30765 *	US-PATENT-APPL-SN-394206	c 76	N75-25730 *
US-PATENT-APPL-SN-364092	c 76	N83-35888 *	US-PATENT-APPL-SN-379602	c 44	N84-23018 *	US-PATENT-APPL-SN-394207	c 25	N78-27226 *
US-PATENT-APPL-SN-364093	c 37	N83-34323 *	US-PATENT-APPL-SN-379768	c 28	N71-10780 *	US-PATENT-APPL-SN-394280	c 54	N82-29002 *
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US-PATENT-APPL-SN-364097	c 71	N82-27086 *	US-PATENT-APPL-SN-380046	c 25	N76-29379 *	US-PATENT-APPL-SN-394898	c 07	N77-28118 *
US-PATENT-APPL-SN-364126	c 36	N84-22943 *	US-PATENT-APPL-SN-380630	c 37	N75-21631 *	US-PATENT-APPL-SN-395348	c 15	N71-22713 *
US-PATENT-APPL-SN-364867	c 09	N71-10673 *	US-PATENT-APPL-SN-380980	c 15	N70-41993 *	US-PATENT-APPL-SN-395493	c 37	N79-13364 *
US-PATENT-APPL-SN-365244	c 37	N78-17386 *	US-PATENT-APPL-SN-380985	c 10	N71-23033 *	US-PATENT-APPL-SN-395495	c 54	N75-27759 *
US-PATENT-APPL-SN-365331	c 07	N72-25174 *	US-PATENT-APPL-SN-381940	c 09	N71-20705 *	US-PATENT-APPL-SN-395687	c 37	N75-18573 *
US-PATENT-APPL-SN-365334	c 21	N73-14692 *	US-PATENT-APPL-SN-382261	c 35	N76-14430 *	US-PATENT-APPL-SN-395688	c 33	N75-19516 *
US-PATENT-APPL-SN-3654	c 35	N77-27367 *	US-PATENT-APPL-SN-382262	c 37	N74-21058 *	US-PATENT-APPL-SN-395895	c 36	N78-17366 *
US-PATENT-APPL-SN-365644	c 35	N74-26946 *	US-PATENT-APPL-SN-382822	c 28	N70-35422 *	US-PATENT-APPL-SN-396443	c 15	N71-15986 *
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US-PATENT-APPL-SN-397477	c 33	N75-19517 *	US-PATENT-APPL-SN-41431	c 37	N77-27400 *	US-PATENT-APPL-SN-432025	c 15	N71-21531 *
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US-PATENT-APPL-SN-398131	c 05	N70-41297 *	US-PATENT-APPL-SN-415878	c 08	N86-27288 *	US-PATENT-APPL-SN-432030	c 12	N71-20896 *
US-PATENT-APPL-SN-398132	c 15	N70-41808 *	US-PATENT-APPL-SN-415879	c 37	N85-21652 *	US-PATENT-APPL-SN-432032	c 15	N69-24322 * #
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US-PATENT-APPL-SN-398886	c 07	N75-24736 *	US-PATENT-APPL-SN-415960	c 37	N85-20337 *	US-PATENT-APPL-SN-432433	c 15	N71-22705 *
US-PATENT-APPL-SN-398901	c 37	N75-25186 *	US-PATENT-APPL-SN-416135	c 32	N75-15854 *	US-PATENT-APPL-SN-433196	c 44	N84-23019 *
US-PATENT-APPL-SN-399074	c 33	N83-13360 * #	US-PATENT-APPL-SN-416938	c 11	N71-10746 *	US-PATENT-APPL-SN-433227	c 15	N72-26371 *
US-PATENT-APPL-SN-399419	c 21	N71-23289 *	US-PATENT-APPL-SN-416940	c 21	N71-21708 *	US-PATENT-APPL-SN-433598	c 27	N84-22747 *
US-PATENT-APPL-SN-400467	c 33	N75-30431 *	US-PATENT-APPL-SN-416941	c 31	N70-34159 *	US-PATENT-APPL-SN-433821	c 09	N71-16089 *
US-PATENT-APPL-SN-400613	c 15	N71-21528 *	US-PATENT-APPL-SN-416943	c 14	N71-23269 *	US-PATENT-APPL-SN-433968	c 33	N75-25041 *
US-PATENT-APPL-SN-400617	c 31	N71-17629 *	US-PATENT-APPL-SN-416945	c 10	N71-23543 *	US-PATENT-APPL-SN-434084	c 33	N84-27974 *
US-PATENT-APPL-SN-400857	c 31	N79-21225 *	US-PATENT-APPL-SN-416946	c 28	N71-15563 *	US-PATENT-APPL-SN-434085	c 33	N85-29145 *
US-PATENT-APPL-SN-401224	c 38	N78-17396 *	US-PATENT-APPL-SN-417253	c 11	N71-23042 *	US-PATENT-APPL-SN-434087	c 27	N86-19457 *
US-PATENT-APPL-SN-401225	c 38	N78-17395 *	US-PATENT-APPL-SN-418137	c 16	N84-22601 *	US-PATENT-APPL-SN-434143	c 15	N71-15871 *
US-PATENT-APPL-SN-401282	c 18	N85-29991 *	US-PATENT-APPL-SN-418138	c 16	N84-27784 *	US-PATENT-APPL-SN-434148	c 31	N71-24750 *
US-PATENT-APPL-SN-401288	c 37	N84-28081 *	US-PATENT-APPL-SN-418139	c 24	N84-27829 *	US-PATENT-APPL-SN-434672	c 34	N84-14461 *
US-PATENT-APPL-SN-401466	c 09	N75-24758 *	US-PATENT-APPL-SN-418362	c 14	N71-20741 *	US-PATENT-APPL-SN-434674	c 34	N83-35307 *
US-PATENT-APPL-SN-401919	c 24	N76-24363 *	US-PATENT-APPL-SN-418931	c 05	N70-42000 *	US-PATENT-APPL-SN-435387	c 10	N70-42032 *
US-PATENT-APPL-SN-401920	c 37	N75-25185 *	US-PATENT-APPL-SN-418933	c 15	N71-23022 *	US-PATENT-APPL-SN-435433	c 14	N71-30026 *
US-PATENT-APPL-SN-401921	c 24	N76-14203 *	US-PATENT-APPL-SN-419319	c 34	N76-17317 *	US-PATENT-APPL-SN-435511	c 27	N84-27886 *
US-PATENT-APPL-SN-402205	c 33	N85-30187 *	US-PATENT-APPL-SN-419747	c 17	N76-21250 *	US-PATENT-APPL-SN-435756	c 12	N71-16894 *
US-PATENT-APPL-SN-402365	c 31	N71-17730 *	US-PATENT-APPL-SN-419748	c 27	N76-14264 *	US-PATENT-APPL-SN-436313	c 54	N77-32721 *
US-PATENT-APPL-SN-402865	c 33	N74-32660 *	US-PATENT-APPL-SN-419831	c 35	N75-21582 *	US-PATENT-APPL-SN-436315	c 26	N75-19408 *
US-PATENT-APPL-SN-402867	c 35	N75-33367 *	US-PATENT-APPL-SN-419831	c 35	N77-17426 *	US-PATENT-APPL-SN-436316	c 20	N76-14191 *
US-PATENT-APPL-SN-402868	c 35	N75-19612 *	US-PATENT-APPL-SN-42022	c 15	N70-35409 *	US-PATENT-APPL-SN-436317	c 37	N76-24575 *
US-PATENT-APPL-SN-402978	c 10	N71-23084 *	US-PATENT-APPL-SN-420245	c 08	N71-22749 *	US-PATENT-APPL-SN-437556	c 27	N76-16230 *
US-PATENT-APPL-SN-403154	c 37	N77-22480 *	US-PATENT-APPL-SN-420250	c 15	N71-23051 *	US-PATENT-APPL-SN-437611	c 09	N71-22796 *
US-PATENT-APPL-SN-403371	c 27	N82-33523 * #	US-PATENT-APPL-SN-420424	c 34	N75-26282 *	US-PATENT-APPL-SN-437912	c 33	N85-29142 *
US-PATENT-APPL-SN-403378	c 26	N84-33555 *	US-PATENT-APPL-SN-420466	c 14	N71-23092 *	US-PATENT-APPL-SN-437917	c 60	N85-33701 *
US-PATENT-APPL-SN-403694	c 54	N75-12616 *	US-PATENT-APPL-SN-420813	c 36	N75-32441 *	US-PATENT-APPL-SN-438135	c 09	N71-23027 *
US-PATENT-APPL-SN-403695	c 35	N77-20399 *	US-PATENT-APPL-SN-42088	c 34	N78-17336 *	US-PATENT-APPL-SN-438147	c 75	N76-14931 *
US-PATENT-APPL-SN-403847	c 31	N83-35176 *	US-PATENT-APPL-SN-421702	c 44	N75-32581 *	US-PATENT-APPL-SN-438446	c 74	N86-20126 *
US-PATENT-APPL-SN-403848	c 33	N85-21493 *	US-PATENT-APPL-SN-421702	c 44	N76-23675 *	US-PATENT-APPL-SN-438797	c 14	N71-10500 *
US-PATENT-APPL-SN-403849	c 35	N87-21304 *	US-PATENT-APPL-SN-422092	c 14	N71-22989 *	US-PATENT-APPL-SN-438883	c 18	N73-30532 *
US-PATENT-APPL-SN-403959	c 14	N70-41994 *	US-PATENT-APPL-SN-422095	c 07	N71-10676 *	US-PATENT-APPL-SN-438884	c 15	N72-25457 *
US-PATENT-APPL-SN-403960	c 14	N70-41366 *	US-PATENT-APPL-SN-422096	c 03	N71-29044 *	US-PATENT-APPL-SN-439489	c 09	N70-41717 *
US-PATENT-APPL-SN-404212	c 14	N73-32324 *	US-PATENT-APPL-SN-422097	c 11	N71-21481 *	US-PATENT-APPL-SN-439490	c 23	N69-24332 * #
US-PATENT-APPL-SN-404809	c 27	N84-27885 *	US-PATENT-APPL-SN-422098	c 15	N71-22797 *	US-PATENT-APPL-SN-440033	c 27	N70-41897 *
US-PATENT-APPL-SN-404809	c 25	N85-28982 *	US-PATENT-APPL-SN-422099	c 14	N71-22964 *	US-PATENT-APPL-SN-440036	c 09	N71-23097 *
US-PATENT-APPL-SN-405341	c 37	N76-15460 *	US-PATENT-APPL-SN-422864	c 05	N69-21925 * #	US-PATENT-APPL-SN-440039	c 09	N71-22888 *
US-PATENT-APPL-SN-405342	c 35	N75-19615 *	US-PATENT-APPL-SN-422865	c 31	N70-41631 *	US-PATENT-APPL-SN-440656	c 27	N85-21348 *
US-PATENT-APPL-SN-405346	c 37	N75-30562 *	US-PATENT-APPL-SN-422867	c 15	N70-40062 *	US-PATENT-APPL-SN-440916	c 33	N75-27252 *
US-PATENT-APPL-SN-405629	c 09	N71-10677 *	US-PATENT-APPL-SN-422868	c 15	N71-10617 *	US-PATENT-APPL-SN-440917	c 37	N76-18459 *
US-PATENT-APPL-SN-405630	c 14	N71-10616 *	US-PATENT-APPL-SN-422869	c 14	N71-10779 *	US-PATENT-APPL-SN-441279	c 35	N75-29382 *
US-PATENT-APPL-SN-405632	c 21	N71-15582 *	US-PATENT-APPL-SN-423016	c 36	N85-21631 *	US-PATENT-APPL-SN-441897	c 35	N84-33768 *
US-PATENT-APPL-SN-406097	c 14	N71-21088 *	US-PATENT-APPL-SN-423412	c 08	N71-22897 *	US-PATENT-APPL-SN-441899	c 27	N84-14322 *
US-PATENT-APPL-SN-406296	c 25	N79-10163 *	US-PATENT-APPL-SN-424013	c 34	N76-27517 *	US-PATENT-APPL-SN-441936	c 14	N69-39975 * #
US-PATENT-APPL-SN-406715	c 35	N75-15014 *	US-PATENT-APPL-SN-424038	c 24	N75-30260 *	US-PATENT-APPL-SN-442558	c 15	N71-10799 *
US-PATENT-APPL-SN-406820	c 74	N86-32266 *	US-PATENT-APPL-SN-424153	c 15	N71-21234 *	US-PATENT-APPL-SN-442815	c 76	N87-23286 *
US-PATENT-APPL-SN-407240	c 27	N83-34041 *	US-PATENT-APPL-SN-424156	c 02	N71-23007 *	US-PATENT-APPL-SN-442835	c 26	N71-29156 *
US-PATENT-APPL-SN-407240	c 27	N85-20124 *	US-PATENT-APPL-SN-424157	c 28	N70-41275 *	US-PATENT-APPL-SN-444087	c 02	N71-11041 * #
US-PATENT-APPL-SN-407323	c 32	N75-21485 *	US-PATENT-APPL-SN-425096	c 05	N71-23080 *	US-PATENT-APPL-SN-444124	c 52	N84-23095 *
US-PATENT-APPL-SN-407595	c 28	N70-41992 *	US-PATENT-APPL-SN-425201	c 04	N86-19304 *	US-PATENT-APPL-SN-444125	c 20	N83-17588 * #
US-PATENT-APPL-SN-407599	c 14	N71-21091 *	US-PATENT-APPL-SN-425202	c 74	N85-34629 *	US-PATENT-APPL-SN-444149	c 47	N84-28292 *
US-PATENT-APPL-SN-407603	c 05	N71-11199 *	US-PATENT-APPL-SN-425203	c 35	N84-22930 *	US-PATENT-APPL-SN-444150	c 35	N84-22933 *
US-PATENT-APPL-SN-408435	c 15	N71-28937 *	US-PATENT-APPL-SN-425204	c 32	N85-29117 *	US-PATENT-APPL-SN-445178	c 37	N76-15461 *
US-PATENT-APPL-SN-408438	c 07	N71-22750 *	US-PATENT-APPL-SN-425205	c 35	N85-21593 *	US-PATENT-APPL-SN-445292	c 11	N71-23030 *
US-PATENT-APPL-SN-408442	c 10	N71-23662 *	US-PATENT-APPL-SN-425362	c 15	N71-10658 *	US-PATENT-APPL-SN-445398	c 74	N78-15880 *
US-PATENT-APPL-SN-408575	c 35	N83-32026 *	US-PATENT-APPL-SN-425363	c 09	N71-20658 *	US-PATENT-APPL-SN-445807	c 14	N71-22996 *
US-PATENT-APPL-SN-409126	c 18	N71-21068 *	US-PATENT-APPL-SN-425364	c 33	N71-15623 *	US-PATENT-APPL-SN-446071	c 25	N82-29370 *
US-PATENT-APPL-SN-409678	c 09	N84-27749 *	US-PATENT-APPL-SN-425365	c 32	N71-21045 *	US-PATENT-APPL-SN-446131	c 14	N71-22992 *
US-PATENT-APPL-SN-409679	c 33	N82-33634 * #	US-PATENT-APPL-SN-425972	c 03	N71-23006 *	US-PATENT-APPL-SN-446560	c 12	N76-15189 *
US-PATENT-APPL-SN-409679	c 33	N84-22884 *	US-PATENT-APPL-SN-426155	c 33	N75-15874 *	US-PATENT-APPL-SN-446562	c 36	N76-14447 *
US-PATENT-APPL-SN-409680	c 35	N85-20294 *	US-PATENT-APPL-SN-426405	c 25	N75-26043 *	US-PATENT-APPL-SN-446564	c 35	N75-26334 *
US-PATENT-APPL-SN-409990	c 35	N75-27330 *	US-PATENT-APPL-SN-426455	c 28	N71-15661 *	US-PATENT-APPL-SN-446567	c 34	N76-27515 *
US-PATENT-APPL-SN-409991	c 33	N75-13139 *	US-PATENT-APPL-SN-426702	c 15	N70-42034 *	US-PATENT-APPL-SN-446568	c 37	N76-23570 *
US-PATENT-APPL-SN-410325	c 18	N71-23088 *	US-PATENT-APPL-SN-427395	c 54	N75-27760 *	US-PATENT-APPL-SN-446569	c 77	N75-20140 *
US-PATENT-APPL-SN-410326	c 09	N71-21449 *	US-PATENT-APPL-SN-427775	c 27	N76-22376 *	US-PATENT-APPL-SN-447124	c 35	N75-30503 *
US-PATENT-APPL-SN-410330	c 26	N71-23043 *	US-PATENT-APPL-SN-427990	c 06	N71-23527 *	US-PATENT-APPL-SN-447371	c 27	N84-22746 *
US-PATENT-APPL-SN-410331	c 02	N70-41589 *	US-PATENT-APPL-SN-428444	c 44	N76-18642 *	US-PATENT-APPL-SN-447927	c 11	N71-10776 *
US-PATENT-APPL-SN-410332	c 14	N71-23039 *	US-PATENT-APPL-SN-428444	c 44	N76-29704 *	US-PATENT-APPL-SN-447928	c 15	N71-10577 *
US-PATENT-APPL-SN-411572	c 35	N75-15932 *	US-PATENT-APPL-SN-428882	c 31	N70-41948 *	US-PATENT-APPL-SN-447930	c 14	N69-39896 * #
US-PATENT-APPL-SN-411944	c 15	N70-41629 *	US-PATENT-APPL-SN-428887	c 33	N71-29051 *	US-PATENT-APPL-SN-447933	c 03	N69-21337 * #
US-PATENT-APPL-SN-411945	c 18	N71-23047 *	US-PATENT-APPL-SN-428890	c 02	N70-41630 *	US-PATENT-APPL-SN-448320	c 91	N76-30131 *
US-PATENT-APPL-SN-411949	c 27	N71-15635 *	US-PATENT-APPL-SN-428992	c 34	N77-18382 *	US-PATENT-APPL-SN-448321	c 27	N78-32261 *
US-PATENT-APPL-SN-412039	c 06	N84-34443 *	US-PATENT-APPL-SN-428993	c 45	N75-27585 *	US-PATENT-APPL-SN-448323	c 18	N76-17185 *
US-PATENT-APPL-SN-412079	c 37	N75-13266 *	US-PATENT-APPL-SN-428994	c 32	N75-21486 *	US-PATENT-APPL-SN-448325	c 33	N75-26244 *
US-PATENT-APPL-SN-412080	c 36	N75-19653 *	US-PATENT-APPL-SN-428994	c 32	N76-16249 *	US-PATENT-APPL-SN-448365	c 10	N71-26414 *
US-PATENT-APPL-SN-412379	c 32	N77-10392 *	US-PATENT-APPL-SN-428995	c 51	N75-25503 *	US-PATENT-APPL-SN-448881	c 32	N85-29118 *
US-PATENT-APPL-SN-413101	c 07	N86-20389 *	US-PATENT-APPL-SN-429437	c 35	N75-23910 *	US-PATENT-APPL-SN-448898	c 15	N70-41310 *
US-PATENT-APPL-SN-41345	c 09	N72-29172 *	US-PATENT-APPL-SN-429932	c 05	N71-20268 *	US-PATENT-APPL-SN-449118	c 33	N75-19524 *
US-PATENT-APPL-SN-41346	c 15	N72-24522 *	US-PATENT-APPL-SN-430192	c 18	N71-27170 *	US-PATENT-APPL-SN-449153	c 54	N75-27761 *
US-PATENT-APPL-SN-41347	c 09	N72-25256 *	US-PATENT-APPL-SN-430226	c 18	N71-23658 *	US-PATENT-APPL-SN-449901	c 28	N70-41967 *
US-PATENT-APPL-SN-41348	c 09	N72-23173 *	US-PATENT-APPL-SN-430496	c 26	N75-29236 *	US-PATENT-APPL-SN-449902	c 14	N70-41681 *
US-PATENT-APPL-SN-413661	c 15	N71-23024 *	US-PATENT-APPL-SN-430748	c 76	N79-21910 *	US-PATENT-APPL-SN-450166	c 33	N84-27975 *
US-PATENT-APPL-SN-413662	c 09	N70-41929 *	US-PATENT-APPL-SN-430776	c 03	N70-41954 *	US-PATENT-APPL-SN-450319	c 33	N84-33661 *
US-PATENT-APPL-SN-414042	c 35	N79-17192 *	US-PATENT-APPL-SN-430777	c 18	N71-24184 *	US-PATENT-APPL-SN-450500	c 37	N76-18455 *
US-PATENT-APPL-SN-414043	c 27	N76-32315 *	US-PATENT-APPL-SN-430778	c 03	N71-10728 *	US-PATENT-APPL-SN-450502	c 37	N76-18456 *
US-PATENT-APPL-SN-41404	c 03	N73-20039 *	US-PATENT-APPL-SN-430780	c 03	N71-12260 *	US-PATENT-APPL-SN-450504	c 23	N77-17161 *
US-PATENT-APPL-SN-414106	c 54	N84-16803 *	US-PATENT-APPL-SN-431235	c 15	N71-16052 *	US-PATENT-APPL-SN-450505	c 37	N75-

US-PATENT-APPL-SN-452464	c 24	N84-11213 *	US-PATENT-APPL-SN-470428	c 33	N76-16332 *	US-PATENT-APPL-SN-487852	c 23	N76-15268 *
US-PATENT-APPL-SN-452465	c 25	N83-17628 *	US-PATENT-APPL-SN-470429	c 33	N75-31329 *	US-PATENT-APPL-SN-487929	c 33	N74-20859 *
US-PATENT-APPL-SN-452466	c 03	N84-33394 *	US-PATENT-APPL-SN-47061	c 26	N72-25680 *	US-PATENT-APPL-SN-487934	c 15	N71-21530 *
US-PATENT-APPL-SN-452761	c 33	N75-19522 *	US-PATENT-APPL-SN-47062	c 15	N72-17451 *	US-PATENT-APPL-SN-487939	c 14	N71-23040 *
US-PATENT-APPL-SN-452767	c 05	N75-25915 *	US-PATENT-APPL-SN-47063	c 33	N72-25911 *	US-PATENT-APPL-SN-487940	c 10	N71-26434 *
US-PATENT-APPL-SN-452768	c 52	N76-30793 *	US-PATENT-APPL-SN-47063	c 33	N73-25952 *	US-PATENT-APPL-SN-488381	c 14	N73-32321 *
US-PATENT-APPL-SN-452769	c 44	N76-16612 *	US-PATENT-APPL-SN-470902	c 06	N71-28808 *	US-PATENT-APPL-SN-488616	c 07	N76-18117 *
US-PATENT-APPL-SN-452770	c 33	N75-31332 *	US-PATENT-APPL-SN-471154	c 09	N73-28084 *	US-PATENT-APPL-SN-488745	c 26	N75-27127 *
US-PATENT-APPL-SN-452944	c 18	N71-24183 *	US-PATENT-APPL-SN-47120	c 31	N70-32422 *	US-PATENT-APPL-SN-489008	c 23	N75-30256 *
US-PATENT-APPL-SN-452945	c 18	N69-39979 *	US-PATENT-APPL-SN-47121	c 09	N70-39915 *	US-PATENT-APPL-SN-489009	c 33	N76-19339 *
US-PATENT-APPL-SN-453115	c 32	N76-14321 *	US-PATENT-APPL-SN-47122	c 14	N70-34813 *	US-PATENT-APPL-SN-489442	c 25	N69-39884 *
US-PATENT-APPL-SN-453225	c 15	N71-24833 *	US-PATENT-APPL-SN-47123	c 15	N70-34817 *	US-PATENT-APPL-SN-489675	c 05	N85-29947 *
US-PATENT-APPL-SN-453227	c 31	N71-10582 *	US-PATENT-APPL-SN-472066	c 31	N70-42075 *	US-PATENT-APPL-SN-491054	c 14	N71-23174 *
US-PATENT-APPL-SN-453229	c 17	N71-23828 *	US-PATENT-APPL-SN-472372	c 07	N71-20791 *	US-PATENT-APPL-SN-491058	c 09	N71-23443 *
US-PATENT-APPL-SN-453231	c 23	N71-15467 *	US-PATENT-APPL-SN-472643	c 33	N79-21265 *	US-PATENT-APPL-SN-491059	c 09	N71-23015 *
US-PATENT-APPL-SN-453232	c 15	N71-21311 *	US-PATENT-APPL-SN-472747	c 31	N71-16081 *	US-PATENT-APPL-SN-491113	c 35	N86-19581 *
US-PATENT-APPL-SN-453232	c 18	N75-19329 *	US-PATENT-APPL-SN-472775	c 35	N75-33369 *	US-PATENT-APPL-SN-491125	c 27	N84-22750 *
US-PATENT-APPL-SN-453241	c 33	N75-29318 *	US-PATENT-APPL-SN-473498	c 20	N85-21256 *	US-PATENT-APPL-SN-491416	c 35	N75-33368 *
US-PATENT-APPL-SN-455163	c 32	N75-26195 *	US-PATENT-APPL-SN-473499	c 74	N86-21348 *	US-PATENT-APPL-SN-491417	c 37	N76-19437 *
US-PATENT-APPL-SN-455165	c 36	N75-30524 *	US-PATENT-APPL-SN-473535	c 31	N71-15637 *	US-PATENT-APPL-SN-491418	c 31	N76-31365 *
US-PATENT-APPL-SN-45519	c 14	N72-25410 *	US-PATENT-APPL-SN-473537	c 08	N71-15908 *	US-PATENT-APPL-SN-491419	c 32	N76-15330 *
US-PATENT-APPL-SN-455352	c 33	N71-20834 *	US-PATENT-APPL-SN-473827	c 35	N86-32698 *	US-PATENT-APPL-SN-491845	c 28	N71-15659 *
US-PATENT-APPL-SN-455477	c 08	N71-19687 *	US-PATENT-APPL-SN-473973	c 02	N77-10001 *	US-PATENT-APPL-SN-492282	c 27	N85-20124 *
US-PATENT-APPL-SN-45549	c 27	N76-16228 *	US-PATENT-APPL-SN-47440	c 07	N73-20174 *	US-PATENT-APPL-SN-492344	c 05	N71-22896 *
US-PATENT-APPL-SN-456460	c 26	N84-27855 *	US-PATENT-APPL-SN-47441	c 09	N70-34559 *	US-PATENT-APPL-SN-492964	c 25	N85-21280 *
US-PATENT-APPL-SN-456578	c 07	N70-41678 *	US-PATENT-APPL-SN-47443	c 09	N72-17152 *	US-PATENT-APPL-SN-493179	c 23	N85-35227 *
US-PATENT-APPL-SN-456581	c 09	N71-23021 *	US-PATENT-APPL-SN-474531	c 31	N71-23009 *	US-PATENT-APPL-SN-493359	c 20	N76-21275 *
US-PATENT-APPL-SN-456874	c 06	N71-23499 *	US-PATENT-APPL-SN-474744	c 35	N76-14431 *	US-PATENT-APPL-SN-493363	c 33	N76-21390 *
US-PATENT-APPL-SN-456915	c 02	N83-19715 *	US-PATENT-APPL-SN-474745	c 37	N76-14463 *	US-PATENT-APPL-SN-493865	c 24	N86-19380 *
US-PATENT-APPL-SN-457295	c 20	N75-24837 *	US-PATENT-APPL-SN-474815	c 33	N79-21264 *	US-PATENT-APPL-SN-493866	c 71	N84-28568 *
US-PATENT-APPL-SN-457874	c 09	N71-23545 *	US-PATENT-APPL-SN-475299	c 31	N71-17679 *	US-PATENT-APPL-SN-493942	c 14	N71-17659 *
US-PATENT-APPL-SN-457875	c 31	N70-42015 *	US-PATENT-APPL-SN-475336	c 54	N75-27758 *	US-PATENT-APPL-SN-493943	c 15	N71-21529 *
US-PATENT-APPL-SN-457876	c 02	N71-12243 *	US-PATENT-APPL-SN-475337	c 51	N76-29891 *	US-PATENT-APPL-SN-494280	c 28	N71-23081 *
US-PATENT-APPL-SN-457879	c 15	N71-21078 *	US-PATENT-APPL-SN-475338	c 35	N76-15431 *	US-PATENT-APPL-SN-494282	c 15	N69-39735 *
US-PATENT-APPL-SN-457990	c 85	N85-34722 *	US-PATENT-APPL-SN-476244	c 33	N84-22885 *	US-PATENT-APPL-SN-494283	c 31	N71-24035 *
US-PATENT-APPL-SN-457992	c 35	N85-29212 *	US-PATENT-APPL-SN-476759	c 03	N70-42073 *	US-PATENT-APPL-SN-494287	c 03	N71-22974 *
US-PATENT-APPL-SN-458484	c 44	N76-14595 *	US-PATENT-APPL-SN-476761	c 11	N71-10748 *	US-PATENT-APPL-SN-494739	c 07	N71-26291 *
US-PATENT-APPL-SN-459138	c 14	N71-10773 *	US-PATENT-APPL-SN-476763	c 09	N69-21313 *	US-PATENT-APPL-SN-495021	c 44	N78-13526 *
US-PATENT-APPL-SN-459407	c 14	N73-30391 *	US-PATENT-APPL-SN-477333	c 28	N70-41922 *	US-PATENT-APPL-SN-495022	c 60	N77-12721 *
US-PATENT-APPL-SN-459736	c 33	N75-26245 *	US-PATENT-APPL-SN-478129	c 25	N86-27431 *	US-PATENT-APPL-SN-495380	c 37	N85-29285 *
US-PATENT-APPL-SN-459842	c 35	N85-30281 *	US-PATENT-APPL-SN-478130	c 74	N85-23396 *	US-PATENT-APPL-SN-495380	c 37	N87-22976 *
US-PATENT-APPL-SN-460509	c 37	N84-33807 *	US-PATENT-APPL-SN-478131	c 26	N87-14482 *	US-PATENT-APPL-SN-495381	c 24	N84-22695 *
US-PATENT-APPL-SN-460511	c 33	N83-21238 *	US-PATENT-APPL-SN-478491	c 14	N69-21363 *	US-PATENT-APPL-SN-495381	c 24	N85-21267 *
US-PATENT-APPL-SN-460733	c 37	N83-20154 *	US-PATENT-APPL-SN-478800	c 37	N76-19436 *	US-PATENT-APPL-SN-496205	c 14	N71-22965 *
US-PATENT-APPL-SN-460876	c 09	N69-21470 *	US-PATENT-APPL-SN-478802	c 35	N75-29381 *	US-PATENT-APPL-SN-496779	c 05	N76-29217 *
US-PATENT-APPL-SN-460877	c 33	N71-23085 *	US-PATENT-APPL-SN-478803	c 31	N76-14284 *	US-PATENT-APPL-SN-498167	c 03	N71-10608 *
US-PATENT-APPL-SN-461073	c 33	N75-26246 *	US-PATENT-APPL-SN-479353	c 15	N71-23256 *	US-PATENT-APPL-SN-498168	c 28	N71-21822 *
US-PATENT-APPL-SN-461477	c 37	N75-19686 *	US-PATENT-APPL-SN-479357	c 36	N77-19416 *	US-PATENT-APPL-SN-499122	c 15	N71-24164 *
US-PATENT-APPL-SN-461714	c 37	N83-20152 *	US-PATENT-APPL-SN-480210	c 11	N71-21474 *	US-PATENT-APPL-SN-499126	c 23	N86-19376 *
US-PATENT-APPL-SN-461724	c 31	N85-21404 *	US-PATENT-APPL-SN-480211	c 14	N71-26135 *	US-PATENT-APPL-SN-500044	c 35	N85-21597 *
US-PATENT-APPL-SN-461765	c 17	N71-23046 *	US-PATENT-APPL-SN-481020	c 36	N83-29681 *	US-PATENT-APPL-SN-500046	c 31	N87-16918 *
US-PATENT-APPL-SN-461788	c 27	N85-21349 *	US-PATENT-APPL-SN-481086	c 33	N84-33660 *	US-PATENT-APPL-SN-500435	c 14	N71-21082 *
US-PATENT-APPL-SN-462341	c 44	N76-31666 *	US-PATENT-APPL-SN-481106	c 09	N84-34448 *	US-PATENT-APPL-SN-500446	c 10	N71-23029 *
US-PATENT-APPL-SN-462424	c 24	N77-19171 *	US-PATENT-APPL-SN-482104	c 27	N76-22377 *	US-PATENT-APPL-SN-500651	c 07	N85-35195 *
US-PATENT-APPL-SN-462497	c 25	N85-21279 *	US-PATENT-APPL-SN-482105	c 27	N76-23426 *	US-PATENT-APPL-SN-500979	c 32	N76-18295 *
US-PATENT-APPL-SN-462508	c 35	N86-19580 *	US-PATENT-APPL-SN-482307	c 15	N71-21060 *	US-PATENT-APPL-SN-500980	c 72	N76-15860 *
US-PATENT-APPL-SN-462705	c 37	N75-19684 *	US-PATENT-APPL-SN-482311	c 05	N71-22748 *	US-PATENT-APPL-SN-500981	c 35	N77-10492 *
US-PATENT-APPL-SN-462762	c 12	N69-21466 *	US-PATENT-APPL-SN-482313	c 11	N69-24321 *	US-PATENT-APPL-SN-500982	c 75	N76-17951 *
US-PATENT-APPL-SN-462763	c 14	N71-22991 *	US-PATENT-APPL-SN-482670	c 14	N71-21007 *	US-PATENT-APPL-SN-501011	c 33	N76-18345 *
US-PATENT-APPL-SN-462844	c 33	N75-19520 *	US-PATENT-APPL-SN-482952	c 09	N71-28926 *	US-PATENT-APPL-SN-501012	c 33	N76-14373 *
US-PATENT-APPL-SN-462903	c 37	N76-14461 *	US-PATENT-APPL-SN-482953	c 74	N76-18913 *	US-PATENT-APPL-SN-501060	c 60	N84-28491 *
US-PATENT-APPL-SN-463456	c 37	N85-30333 *	US-PATENT-APPL-SN-482967	c 34	N76-18364 *	US-PATENT-APPL-SN-50206	c 07	N72-17109 *
US-PATENT-APPL-SN-463925	c 74	N76-30053 *	US-PATENT-APPL-SN-483301	c 36	N77-26477 *	US-PATENT-APPL-SN-50207	c 07	N72-20141 *
US-PATENT-APPL-SN-464720	c 32	N76-16249 *	US-PATENT-APPL-SN-483817	c 27	N79-21190 *	US-PATENT-APPL-SN-50208	c 14	N73-13418 *
US-PATENT-APPL-SN-464721	c 37	N75-26372 *	US-PATENT-APPL-SN-483850	c 37	N76-14460 *	US-PATENT-APPL-SN-502124	c 35	N76-16393 *
US-PATENT-APPL-SN-464722	c 35	N76-22509 *	US-PATENT-APPL-SN-483851	c 35	N76-15435 *	US-PATENT-APPL-SN-502135	c 35	N76-15933 *
US-PATENT-APPL-SN-464723	c 33	N75-30429 *	US-PATENT-APPL-SN-483852	c 33	N75-30430 *	US-PATENT-APPL-SN-502136	c 35	N75-27331 *
US-PATENT-APPL-SN-464878	c 10	N71-22986 *	US-PATENT-APPL-SN-483857	c 44	N76-14601 *	US-PATENT-APPL-SN-502137	c 37	N76-21554 *
US-PATENT-APPL-SN-464879	c 14	N71-21072 *	US-PATENT-APPL-SN-483858	c 35	N76-18400 *	US-PATENT-APPL-SN-502138	c 43	N77-10584 *
US-PATENT-APPL-SN-464880	c 33	N71-21586 *	US-PATENT-APPL-SN-483885	c 04	N71-23185 *	US-PATENT-APPL-SN-502693	c 15	N71-20739 *
US-PATENT-APPL-SN-464885	c 15	N71-22997 *	US-PATENT-APPL-SN-483886	c 09	N71-22988 *	US-PATENT-APPL-SN-502701	c 08	N71-23295 *
US-PATENT-APPL-SN-465363	c 52	N84-28389 *	US-PATENT-APPL-SN-483891	c 14	N69-39982 *	US-PATENT-APPL-SN-502709	c 31	N71-21881 *
US-PATENT-APPL-SN-465364	c 44	N85-20530 *	US-PATENT-APPL-SN-484156	c 11	N71-21475 *	US-PATENT-APPL-SN-502710	c 15	N71-23048 *
US-PATENT-APPL-SN-465365	c 43	N86-19711 *	US-PATENT-APPL-SN-484208	c 35	N75-30502 *	US-PATENT-APPL-SN-502729	c 31	N70-41871 *
US-PATENT-APPL-SN-465366	c 27	N85-20126 *	US-PATENT-APPL-SN-484209	c 35	N76-18403 *	US-PATENT-APPL-SN-502739	c 09	N71-23311 *
US-PATENT-APPL-SN-465367	c 27	N84-22748 *	US-PATENT-APPL-SN-484485	c 01	N71-23497 *	US-PATENT-APPL-SN-502740	c 14	N69-27485 *
US-PATENT-APPL-SN-465369	c 76	N86-28760 *	US-PATENT-APPL-SN-484489	c 10	N71-15909 *	US-PATENT-APPL-SN-502743	c 08	N71-19435 *
US-PATENT-APPL-SN-465370	c 52	N83-29991 *	US-PATENT-APPL-SN-484490	c 24	N71-20518 *	US-PATENT-APPL-SN-502746	c 03	N69-39898 *
US-PATENT-APPL-SN-466390	c 28	N71-20330 *	US-PATENT-APPL-SN-484745	c 35	N85-20295 *	US-PATENT-APPL-SN-502750	c 09	N71-19466 *
US-PATENT-APPL-SN-466868	c 22	N71-23599 *	US-PATENT-APPL-SN-484855	c 09	N71-19480 *	US-PATENT-APPL-SN-502753	c 07	N69-39978 *
US-PATENT-APPL-SN-466873	c 17	N71-20743 *	US-PATENT-APPL-SN-485058	c 06	N71-23500 *	US-PATENT-APPL-SN-502756	c 03	N71-23336 *
US-PATENT-APPL-SN-466875	c 08	N71-22707 *	US-PATENT-APPL-SN-485656	c 28	N71-10574 *	US-PATENT-APPL-SN-502820	c 27	N85-21347 *
US-PATENT-APPL-SN-467820	c 28	N71-26779 *	US-PATENT-APPL-SN-485957	c 25	N71-21694 *	US-PATENT-APPL-SN-50339	c 04	N72-33072 *
US-PATENT-APPL-SN-468614	c 60	N77-14751 *	US-PATENT-APPL-SN-485958	c 15	N71-24047 *	US-PATENT-APPL-SN-504225	c 35	N76-16392 *
US-PATENT-APPL-SN-468614	c 60	N77-32731 *	US-PATENT-APPL-SN-485960	c 15	N70-42017 *	US-PATENT-APPL-SN-504266	c 31	N71-21064 *
US-PATENT-APPL-SN-468614	c 60	N78-10709 *	US-PATENT-APPL-SN-48621	c 20	N78-32179 *	US-PATENT-APPL-SN-504345	c 33	N85-22877 *
US-PATENT-APPL-SN-468647	c 21	N71-10771 *	US-PATENT-APPL-SN-486470	c 44	N85-21768 *	US-PATENT-APPL-SN-505320	c 16	N71-18614 *
US-PATENT-APPL-SN-468655	c 15	N69-21471 *	US-PATENT-APPL-SN-486471	c 33	N85-21492 *	US-PATENT-APPL-SN-505321	c 10	N71-22962 *
US-PATENT-APPL-SN-469011	c 11	N69-21540 *	US-PATENT-APPL-SN-486573	c 10	N71-19469 *	US-PATENT-APPL-SN-505765	c 15	N71-23816 *
US-PATENT-APPL-SN-469012	c 25	N71-20747 *	US-PATENT-APPL-SN-486884	c 15	N73-32362 *	US-PATENT-APPL-SN-505819	c 33	N76-16331 *
US-PATENT-APPL-SN-469013	c 14	N69-27423 *	US-PATENT-APPL-SN-487156	c 44	N77-10636 *	US-PATENT-APPL-SN-505881	c 09	N76-24280 *
US-PATENT-APPL-SN-469371	c 05	N86-19310 *	US-PATENT-APPL-SN-487341	c 14	N71-19431 *	US-PATENT-APPL-SN-506135	c 06	N71-20905 *
US-PATENT-APPL-SN-469864	c 37	N86-19605 *	US-PATENT-APPL-SN-487342	c 09	N71-21583 *	US-PATENT-APPL-SN-506137	c 15	N71-23049 *
US-PATENT-APPL-SN-46986								

US-PATENT-APPL-SN-506908	c 09	N71-18843 *	US-PATENT-APPL-SN-521754	c 07	N71-22984 *	US-PATENT-APPL-SN-537757	c 37	N86-20789 *
US-PATENT-APPL-SN-507254	c 14	N71-22990 *	US-PATENT-APPL-SN-521755	c 28	N71-28849 *	US-PATENT-APPL-SN-537979	c 37	N77-11397 *
US-PATENT-APPL-SN-507257	c 09	N71-19449 *	US-PATENT-APPL-SN-521816	c 35	N77-19385 *	US-PATENT-APPL-SN-538047	c 37	N76-27568 *
US-PATENT-APPL-SN-507623	c 31	N85-29083 *	US-PATENT-APPL-SN-521817	c 45	N76-17422 *	US-PATENT-APPL-SN-538063	c 37	N86-19603 *
US-PATENT-APPL-SN-507624	c 76	N85-30922 *	US-PATENT-APPL-SN-521994	c 17	N71-23365 *	US-PATENT-APPL-SN-538166	c 15	N71-21177 *
US-PATENT-APPL-SN-507625	c 76	N86-20150 *	US-PATENT-APPL-SN-521996	c 15	N69-27871 *	US-PATENT-APPL-SN-538168	c 23	N71-16098 *
US-PATENT-APPL-SN-507626	c 34	N85-29179 *	US-PATENT-APPL-SN-521998	c 07	N69-24323 *	US-PATENT-APPL-SN-538863	c 54	N78-17680 *
US-PATENT-APPL-SN-508169	c 18	N71-27397 *	US-PATENT-APPL-SN-521999	c 12	N71-20815 *	US-PATENT-APPL-SN-538905	c 08	N71-18594 *
US-PATENT-APPL-SN-508170	c 08	N71-22710 *	US-PATENT-APPL-SN-522109	c 07	N78-17056 *	US-PATENT-APPL-SN-538907	c 33	N71-28903 *
US-PATENT-APPL-SN-508371	c 05	N85-21147 *	US-PATENT-APPL-SN-522551	c 76	N76-20994 *	US-PATENT-APPL-SN-538908	c 33	N71-22890 *
US-PATENT-APPL-SN-508372	c 43	N83-29783 *	US-PATENT-APPL-SN-522552	c 35	N76-16390 *	US-PATENT-APPL-SN-538911	c 33	N71-22792 *
US-PATENT-APPL-SN-508601	c 15	N71-22878 *	US-PATENT-APPL-SN-522556	c 35	N76-15432 *	US-PATENT-APPL-SN-538913	c 14	N71-17627 *
US-PATENT-APPL-SN-508784	c 76	N76-25049 *	US-PATENT-APPL-SN-5226628	c 08	N85-19985 *	US-PATENT-APPL-SN-538982	c 33	N77-14333 *
US-PATENT-APPL-SN-508873	c 14	N71-23240 *	US-PATENT-APPL-SN-522794	c 09	N71-23190 *	US-PATENT-APPL-SN-538983	c 33	N76-18353 *
US-PATENT-APPL-SN-509460	c 01	N71-13411 *	US-PATENT-APPL-SN-522795	c 20	N71-16281 *	US-PATENT-APPL-SN-539230	c 37	N85-30335 *
US-PATENT-APPL-SN-510136	c 18	N84-33450 *	US-PATENT-APPL-SN-522971	c 54	N76-24900 *	US-PATENT-APPL-SN-539237	c 33	N71-16278 *
US-PATENT-APPL-SN-510137	c 37	N85-34401 *	US-PATENT-APPL-SN-523297	c 24	N85-21266 *	US-PATENT-APPL-SN-539255	c 18	N71-26153 *
US-PATENT-APPL-SN-510150	c 10	N71-26103 *	US-PATENT-APPL-SN-523297	c 24	N85-35233 *	US-PATENT-APPL-SN-539255	c 17	N72-28536 *
US-PATENT-APPL-SN-510155	c 06	N71-11235 *	US-PATENT-APPL-SN-523511	c 28	N71-20942 *	US-PATENT-APPL-SN-540414	c 15	N71-22799 *
US-PATENT-APPL-SN-510474	c 15	N71-23810 *	US-PATENT-APPL-SN-523559	c 74	N85-29750 *	US-PATENT-APPL-SN-540779	c 33	N78-12331 *
US-PATENT-APPL-SN-510475	c 14	N71-23087 *	US-PATENT-APPL-SN-523560	c 60	N86-21154 *	US-PATENT-APPL-SN-541399	c 14	N71-20428 *
US-PATENT-APPL-SN-510677	c 44	N77-19571 *	US-PATENT-APPL-SN-523632	c 33	N78-17293 *	US-PATENT-APPL-SN-541526	c 33	N87-14594 *
US-PATENT-APPL-SN-511299	c 15	N71-22798 *	US-PATENT-APPL-SN-523691	c 35	N86-20751 *	US-PATENT-APPL-SN-542157	c 20	N76-21276 *
US-PATENT-APPL-SN-511334	c 36	N77-32478 *	US-PATENT-APPL-SN-524746	c 14	N73-28491 *	US-PATENT-APPL-SN-542192	c 26	N75-27126 *
US-PATENT-APPL-SN-511346	c 15	N77-10113 *	US-PATENT-APPL-SN-526438	c 25	N76-22323 *	US-PATENT-APPL-SN-542232	c 33	N86-19516 *
US-PATENT-APPL-SN-511362	c 33	N85-29147 *	US-PATENT-APPL-SN-526448	c 44	N76-14602 *	US-PATENT-APPL-SN-542557	c 44	N85-30474 *
US-PATENT-APPL-SN-5114	c 06	N72-25150 *	US-PATENT-APPL-SN-526449	c 54	N76-14604 *	US-PATENT-APPL-SN-54270	c 07	N72-25173 *
US-PATENT-APPL-SN-511564	c 09	N69-39885 *	US-PATENT-APPL-SN-526450	c 35	N77-14409 *	US-PATENT-APPL-SN-542713	c 23	N71-23976 *
US-PATENT-APPL-SN-511567	c 05	N71-12336 *	US-PATENT-APPL-SN-526631	c 10	N71-19471 *	US-PATENT-APPL-SN-54271	c 02	N73-19004 *
US-PATENT-APPL-SN-511867	c 35	N76-15436 *	US-PATENT-APPL-SN-526664	c 07	N69-24334 *	US-PATENT-APPL-SN-542754	c 34	N76-18374 *
US-PATENT-APPL-SN-511894	c 03	N76-32140 *	US-PATENT-APPL-SN-526665	c 14	N69-24331 *	US-PATENT-APPL-SN-543206	c 05	N71-23159 *
US-PATENT-APPL-SN-512352	c 15	N70-33330 *	US-PATENT-APPL-SN-526739	c 37	N87-23970 *	US-PATENT-APPL-SN-543774	c 06	N69-39733 *
US-PATENT-APPL-SN-512509	c 26	N75-27125 *	US-PATENT-APPL-SN-526741	c 09	N84-12193 *	US-PATENT-APPL-SN-544611	c 33	N76-15373 *
US-PATENT-APPL-SN-512559	c 23	N71-22881 *	US-PATENT-APPL-SN-526750	c 71	N85-22105 *	US-PATENT-APPL-SN-544895	c 07	N71-28809 *
US-PATENT-APPL-SN-512561	c 16	N71-25914 *	US-PATENT-APPL-SN-526768	c 25	N85-35253 *	US-PATENT-APPL-SN-544899	c 09	N71-20569 *
US-PATENT-APPL-SN-512562	c 16	N71-24074 *	US-PATENT-APPL-SN-526770	c 35	N85-21598 *	US-PATENT-APPL-SN-545223	c 03	N71-11056 *
US-PATENT-APPL-SN-512795	c 27	N84-22745 *	US-PATENT-APPL-SN-527331	c 17	N73-28573 *	US-PATENT-APPL-SN-545224	c 15	N69-21362 *
US-PATENT-APPL-SN-512825	c 32	N76-15329 *	US-PATENT-APPL-SN-527613	c 37	N86-19604 *	US-PATENT-APPL-SN-545228	c 07	N69-39736 *
US-PATENT-APPL-SN-51317	c 14	N73-30389 *	US-PATENT-APPL-SN-527727	c 02	N76-16014 *	US-PATENT-APPL-SN-545229	c 03	N69-21469 *
US-PATENT-APPL-SN-513346	c 07	N79-14095 *	US-PATENT-APPL-SN-527728	c 37	N76-18458 *	US-PATENT-APPL-SN-545282	c 35	N76-24524 *
US-PATENT-APPL-SN-513389	c 25	N75-12087 *	US-PATENT-APPL-SN-527790	c 33	N76-14372 *	US-PATENT-APPL-SN-545283	c 32	N77-12239 *
US-PATENT-APPL-SN-513576	c 35	N76-29552 *	US-PATENT-APPL-SN-527914	c 27	N86-21675 *	US-PATENT-APPL-SN-545284	c 34	N76-27517 *
US-PATENT-APPL-SN-513611	c 24	N76-22309 *	US-PATENT-APPL-SN-527918	c 09	N85-21178 *	US-PATENT-APPL-SN-54540	c 15	N72-29488 *
US-PATENT-APPL-SN-513611	c 24	N80-33482 *	US-PATENT-APPL-SN-528031	c 10	N69-39898 *	US-PATENT-APPL-SN-54540	c 37	N74-15125 *
US-PATENT-APPL-SN-513612	c 05	N77-17029 *	US-PATENT-APPL-SN-529593	c 27	N71-21819 *	US-PATENT-APPL-SN-54552	c 27	N70-34783 *
US-PATENT-APPL-SN-513613	c 27	N78-15276 *	US-PATENT-APPL-SN-529594	c 15	N69-27483 *	US-PATENT-APPL-SN-54552	c 20	N77-17143 *
US-PATENT-APPL-SN-513690	c 37	N76-20480 *	US-PATENT-APPL-SN-529594	c 33	N71-29152 *	US-PATENT-APPL-SN-545535	c 03	N69-21539 *
US-PATENT-APPL-SN-514117	c 27	N86-19455 *	US-PATENT-APPL-SN-529609	c 09	N69-39896 *	US-PATENT-APPL-SN-545793	c 20	N80-14188 *
US-PATENT-APPL-SN-514407	c 18	N71-22894 *	US-PATENT-APPL-SN-529803	c 33	N86-20668 *	US-PATENT-APPL-SN-545805	c 15	N71-21744 *
US-PATENT-APPL-SN-514546	c 74	N76-20958 *	US-PATENT-APPL-SN-529884	c 54	N78-18761 *	US-PATENT-APPL-SN-546142	c 09	N69-24329 *
US-PATENT-APPL-SN-51473	c 02	N70-33266 *	US-PATENT-APPL-SN-530185	c 32	N86-20647 *	US-PATENT-APPL-SN-546148	c 11	N71-22875 *
US-PATENT-APPL-SN-51477	c 14	N72-25412 *	US-PATENT-APPL-SN-530339	c 31	N86-19479 *	US-PATENT-APPL-SN-546149	c 16	N71-24170 *
US-PATENT-APPL-SN-515484	c 14	N71-22993 *	US-PATENT-APPL-SN-530958	c 09	N71-22985 *	US-PATENT-APPL-SN-547072	c 15	N71-24043 *
US-PATENT-APPL-SN-516087	c 27	N85-20125 *	US-PATENT-APPL-SN-531565	c 36	N76-24553 *	US-PATENT-APPL-SN-547072	c 35	N78-32397 *
US-PATENT-APPL-SN-516150	c 05	N71-19440 *	US-PATENT-APPL-SN-53156	c 10	N71-28860 *	US-PATENT-APPL-SN-547175	c 76	N84-12968 *
US-PATENT-APPL-SN-516151	c 15	N70-41679 *	US-PATENT-APPL-SN-531572	c 66	N76-19888 *	US-PATENT-APPL-SN-547176	c 37	N85-29286 *
US-PATENT-APPL-SN-516152	c 14	N71-23225 *	US-PATENT-APPL-SN-531575	c 32	N76-19888 *	US-PATENT-APPL-SN-547643	c 33	N79-33392 *
US-PATENT-APPL-SN-516153	c 10	N71-28783 *	US-PATENT-APPL-SN-531642	c 25	N71-21693 *	US-PATENT-APPL-SN-547677	c 10	N71-20448 *
US-PATENT-APPL-SN-516154	c 09	N69-24330 *	US-PATENT-APPL-SN-531647	c 04	N76-20114 *	US-PATENT-APPL-SN-548468	c 37	N76-27567 *
US-PATENT-APPL-SN-516155	c 09	N71-23270 *	US-PATENT-APPL-SN-531647	c 04	N77-19056 *	US-PATENT-APPL-SN-548559	c 44	N76-29700 *
US-PATENT-APPL-SN-516158	c 09	N71-19479 *	US-PATENT-APPL-SN-532006	c 23	N71-24857 *	US-PATENT-APPL-SN-548582	c 39	N86-20841 *
US-PATENT-APPL-SN-516159	c 14	N70-41812 *	US-PATENT-APPL-SN-532342	c 08	N85-35200 *	US-PATENT-APPL-SN-548583	c 27	N85-34282 *
US-PATENT-APPL-SN-516160	c 33	N71-16277 *	US-PATENT-APPL-SN-532784	c 27	N75-29263 *	US-PATENT-APPL-SN-548584	c 24	N84-34571 *
US-PATENT-APPL-SN-516162	c 07	N71-28900 *	US-PATENT-APPL-SN-532784	c 27	N78-17205 *	US-PATENT-APPL-SN-548808	c 14	N71-23227 *
US-PATENT-APPL-SN-516217	c 27	N85-21350 *	US-PATENT-APPL-SN-533555	c 36	N76-18428 *	US-PATENT-APPL-SN-549418	c 36	N76-31512 *
US-PATENT-APPL-SN-516217	c 27	N85-21351 *	US-PATENT-APPL-SN-533556	c 36	N76-29575 *	US-PATENT-APPL-SN-549860	c 03	N71-19438 *
US-PATENT-APPL-SN-516217	c 27	N85-21352 *	US-PATENT-APPL-SN-533608	c 32	N76-21366 *	US-PATENT-APPL-SN-550088	c 07	N71-24612 *
US-PATENT-APPL-SN-516217	c 25	N85-28982 *	US-PATENT-APPL-SN-533650	c 35	N75-27329 *	US-PATENT-APPL-SN-550681	c 02	N87-16793 *
US-PATENT-APPL-SN-516217	c 25	N85-30039 *	US-PATENT-APPL-SN-533659	c 14	N73-30390 *	US-PATENT-APPL-SN-551182	c 03	N71-23187 *
US-PATENT-APPL-SN-516793	c 16	N71-22895 *	US-PATENT-APPL-SN-533734	c 33	N77-10428 *	US-PATENT-APPL-SN-551184	c 37	N76-22541 *
US-PATENT-APPL-SN-516794	c 14	N70-42074 *	US-PATENT-APPL-SN-534265	c 32	N76-21365 *	US-PATENT-APPL-SN-551536	c 04	N86-27270 *
US-PATENT-APPL-SN-517100	c 28	N70-33241 *	US-PATENT-APPL-SN-534266	c 35	N76-24523 *	US-PATENT-APPL-SN-551694	c 31	N71-18611 *
US-PATENT-APPL-SN-517156	c 14	N71-23093 *	US-PATENT-APPL-SN-534295	c 15	N71-21076 *	US-PATENT-APPL-SN-551815	c 02	N71-11038 *
US-PATENT-APPL-SN-517157	c 15	N71-22722 *	US-PATENT-APPL-SN-534564	c 10	N71-22961 *	US-PATENT-APPL-SN-551846	c 03	N71-20492 *
US-PATENT-APPL-SN-517158	c 14	N71-23401 *	US-PATENT-APPL-SN-534901	c 14	N70-36807 *	US-PATENT-APPL-SN-551933	c 33	N71-14032 *
US-PATENT-APPL-SN-517159	c 15	N71-20740 *	US-PATENT-APPL-SN-534931	c 37	N80-14395 *	US-PATENT-APPL-SN-551961	c 15	N70-33376 *
US-PATENT-APPL-SN-517858	c 14	N71-21006 *	US-PATENT-APPL-SN-534961	c 15	N71-24042 *	US-PATENT-APPL-SN-552108	c 07	N79-14096 *
US-PATENT-APPL-SN-517869	c 15	N71-23050 *	US-PATENT-APPL-SN-534975	c 14	N71-24232 *	US-PATENT-APPL-SN-552344	c 09	N69-27463 *
US-PATENT-APPL-SN-517995	c 39	N76-31562 *	US-PATENT-APPL-SN-535169	c 54	N78-17678 *	US-PATENT-APPL-SN-552454	c 35	N76-24525 *
US-PATENT-APPL-SN-518487	c 05	N71-11190 *	US-PATENT-APPL-SN-535304	c 09	N71-28810 *	US-PATENT-APPL-SN-553339	c 27	N86-20560 *
US-PATENT-APPL-SN-518544	c 44	N76-24696 *	US-PATENT-APPL-SN-535410	c 37	N76-15457 *	US-PATENT-APPL-SN-553339	c 27	N87-22845 *
US-PATENT-APPL-SN-518545	c 19	N76-22284 *	US-PATENT-APPL-SN-536210	c 17	N71-24830 *	US-PATENT-APPL-SN-55333	c 10	N73-16206 *
US-PATENT-APPL-SN-518546	c 26	N76-18257 *	US-PATENT-APPL-SN-536216	c 10	N71-23315 *	US-PATENT-APPL-SN-553687	c 44	N76-29704 *
US-PATENT-APPL-SN-518684	c 44	N76-22657 *	US-PATENT-APPL-SN-536217	c 10	N71-23544 *	US-PATENT-APPL-SN-553891	c 23	N71-16341 *
US-PATENT-APPL-SN-518685	c 35	N76-14429 *	US-PATENT-APPL-SN-536535	c 33	N76-14371 *	US-PATENT-APPL-SN-554277	c 07	N71-26579 *
US-PATENT-APPL-SN-519160	c 18	N71-20742 *	US-PATENT-APPL-SN-536761	c 33	N76-19338 *	US-PATENT-APPL-SN-554897	c 15	N71-22982 *
US-PATENT-APPL-SN-519161	c 05	N71-20718 *	US-PATENT-APPL-SN-536762	c 37	N76-22540 *	US-PATENT-APPL-SN-554899	c 15	N70-33382 *
US-PATENT-APPL-SN-519395	c 09	N69-24317 *	US-PATENT-APPL-SN-536785	c 33	N76-31409 *	US-PATENT-APPL-SN-554949	c 06	N71-20717 *
US-PATENT-APPL-SN-520838	c 08	N71-18595 *	US-PATENT-APPL-SN-536786	c 44	N77-32581 *	US-PATENT-APPL-SN-554950	c 17	N71-23248 *
US-PATENT-APPL-SN-520839	c 10	N71-19472 *	US-PATENT-APPL-SN-537024	c 44	N76-27664 *	US-PATENT-APPL-SN-554959	c 27	N79-21191 *
US-PATENT-APPL-SN-521006	c 34	N77-10463 *	US-PATENT-APPL-SN-537480	c 45	N76-31714 *	US-PATENT-APPL-SN-555189	c 08	N71-27255 *
US-PATENT-APPL-SN-521601	c 60	N76-14818 *	US-PATENT-APPL-SN-537614	c 33	N86-20672 *	US-PATENT-APPL-SN-555336	c 33	N76-27473 *
US-PATENT-APPL-SN-521602	c 37	N76-18454 *	US-PATENT-APPL-SN-537615	c 28	N71-22983 *	US-PATENT-APPL-SN-55534	c 11	N72-25288 *
US-PATENT-APPL-SN-								

US-PATENT-APPL-SN-555641	c 51	N76-29891 *	US-PATENT-APPL-SN-571458	c 44	N77-10635 *	US-PATENT-APPL-SN-584914	c 54	N78-17679 *
US-PATENT-APPL-SN-555750	c 27	N79-12221 *	US-PATENT-APPL-SN-571459	c 54	N78-14784 *	US-PATENT-APPL-SN-585217	c 54	N78-17677 *
US-PATENT-APPL-SN-556481	c 74	N86-26190 *	US-PATENT-APPL-SN-571613	c 74	N86-20124 *	US-PATENT-APPL-SN-585420	c 35	N76-31489 *
US-PATENT-APPL-SN-556512	c 37	N86-25789 *	US-PATENT-APPL-SN-571614	c 35	N86-20750 *	US-PATENT-APPL-SN-585598	c 33	N75-29318 *
US-PATENT-APPL-SN-556513	c 33	N85-29143 *	US-PATENT-APPL-SN-571615	c 74	N87-14971 *	US-PATENT-APPL-SN-586324	c 05	N71-26293 *
US-PATENT-APPL-SN-556514	c 35	N86-25753 *	US-PATENT-APPL-SN-571616	c 25	N86-19413 *	US-PATENT-APPL-SN-586325	c 31	N71-24315 *
US-PATENT-APPL-SN-556784	c 09	N71-20447 *	US-PATENT-APPL-SN-571617	c 26	N85-35267 *	US-PATENT-APPL-SN-586329	c 05	N71-26293 *
US-PATENT-APPL-SN-556830	c 15	N71-26294 *	US-PATENT-APPL-SN-571821	c 20	N76-22296 *	US-PATENT-APPL-SN-586330	c 05	N71-12344 *
US-PATENT-APPL-SN-557016	c 15	N71-23086 *	US-PATENT-APPL-SN-57252	c 14	N72-25414 *	US-PATENT-APPL-SN-587764	c 18	N86-24729 *
US-PATENT-APPL-SN-557430	c 52	N77-14737 *	US-PATENT-APPL-SN-57253	c 18	N72-25541 *	US-PATENT-APPL-SN-588036	c 18	N84-22612 *
US-PATENT-APPL-SN-557448	c 45	N76-17856 *	US-PATENT-APPL-SN-572990	c 37	N78-16369 *	US-PATENT-APPL-SN-588039	c 18	N87-14373 *
US-PATENT-APPL-SN-557565	c 24	N77-27187 *	US-PATENT-APPL-SN-572991	c 51	N77-22794 *	US-PATENT-APPL-SN-588164	c 31	N85-29980 *
US-PATENT-APPL-SN-557584	c 09	N71-20851 *	US-PATENT-APPL-SN-573029	c 07	N79-14097 *	US-PATENT-APPL-SN-588635	c 21	N71-15642 *
US-PATENT-APPL-SN-557861	c 03	N71-24605 *	US-PATENT-APPL-SN-573162	c 37	N86-27630 *	US-PATENT-APPL-SN-588651	c 31	N71-24813 *
US-PATENT-APPL-SN-557868	c 14	N70-41682 *	US-PATENT-APPL-SN-573432	c 14	N71-23790 *	US-PATENT-APPL-SN-588671	c 03	N71-23354 *
US-PATENT-APPL-SN-557871	c 10	N71-21483 *	US-PATENT-APPL-SN-573999	c 03	N72-20034 *	US-PATENT-APPL-SN-588721	c 27	N78-33228 *
US-PATENT-APPL-SN-55806	c 06	N72-31140 *	US-PATENT-APPL-SN-574208	c 37	N76-29590 *	US-PATENT-APPL-SN-589119	c 32	N77-32342 *
US-PATENT-APPL-SN-558600	c 74	N77-10899 *	US-PATENT-APPL-SN-574218	c 52	N76-29895 *	US-PATENT-APPL-SN-589172	c 27	N79-14214 *
US-PATENT-APPL-SN-559055	c 33	N71-29046 *	US-PATENT-APPL-SN-574219	c 35	N76-31490 *	US-PATENT-APPL-SN-589173	c 32	N77-12240 *
US-PATENT-APPL-SN-559349	c 33	N71-24145 *	US-PATENT-APPL-SN-574280	c 15	N69-21460 *	US-PATENT-APPL-SN-589233	c 33	N77-14335 *
US-PATENT-APPL-SN-559350	c 33	N71-28892 *	US-PATENT-APPL-SN-574282	c 15	N69-23190 *	US-PATENT-APPL-SN-590141	c 03	N69-24267 *
US-PATENT-APPL-SN-559351	c 14	N69-39785 *	US-PATENT-APPL-SN-574283	c 15	N71-23025 *	US-PATENT-APPL-SN-590144	c 15	N71-15606 *
US-PATENT-APPL-SN-559845	c 35	N76-29551 *	US-PATENT-APPL-SN-574283	c 14	N69-24257 *	US-PATENT-APPL-SN-590145	c 07	N69-39980 *
US-PATENT-APPL-SN-559846	c 34	N79-13289 *	US-PATENT-APPL-SN-574284	c 08	N71-19763 *	US-PATENT-APPL-SN-590146	c 09	N69-21926 *
US-PATENT-APPL-SN-559846	c 34	N80-24573 *	US-PATENT-APPL-SN-574290	c 14	N71-20439 *	US-PATENT-APPL-SN-590147	c 15	N71-21489 *
US-PATENT-APPL-SN-559847	c 34	N79-13288 *	US-PATENT-APPL-SN-575291	c 33	N71-29151 *	US-PATENT-APPL-SN-590158	c 05	N71-24147 *
US-PATENT-APPL-SN-559888	c 71	N85-29693 *	US-PATENT-APPL-SN-575475	c 05	N69-23192 *	US-PATENT-APPL-SN-590159	c 09	N69-24324 *
US-PATENT-APPL-SN-560035	c 24	N85-30027 *	US-PATENT-APPL-SN-575930	c 06	N71-23230 *	US-PATENT-APPL-SN-590182	c 37	N76-29588 *
US-PATENT-APPL-SN-560891	c 73	N78-19920 *	US-PATENT-APPL-SN-576182	c 33	N71-24276 *	US-PATENT-APPL-SN-590183	c 74	N79-13855 *
US-PATENT-APPL-SN-560967	c 15	N69-21922 *	US-PATENT-APPL-SN-576183	c 09	N71-23252 *	US-PATENT-APPL-SN-590921	c 71	N86-21276 *
US-PATENT-APPL-SN-560968	c 10	N71-24863 *	US-PATENT-APPL-SN-576195	c 14	N71-21079 *	US-PATENT-APPL-SN-590923	c 35	N85-34375 *
US-PATENT-APPL-SN-560969	c 14	N71-15622 *	US-PATENT-APPL-SN-576308	c 07	N85-35194 *	US-PATENT-APPL-SN-590925	c 26	N86-32550 *
US-PATENT-APPL-SN-561020	c 44	N76-23675 *	US-PATENT-APPL-SN-576488	c 44	N76-28635 *	US-PATENT-APPL-SN-590975	c 44	N78-31525 *
US-PATENT-APPL-SN-561223	c 14	N71-20427 *	US-PATENT-APPL-SN-576521	c 09	N71-20864 *	US-PATENT-APPL-SN-591000	c 15	N71-24044 *
US-PATENT-APPL-SN-561369	c 35	N84-33766 *	US-PATENT-APPL-SN-576774	c 60	N77-19760 *	US-PATENT-APPL-SN-591004	c 07	N71-11266 *
US-PATENT-APPL-SN-561429	c 27	N85-21351 *	US-PATENT-APPL-SN-576792	c 14	N71-26136 *	US-PATENT-APPL-SN-591007	c 16	N69-27491 *
US-PATENT-APPL-SN-561431	c 27	N85-21350 *	US-PATENT-APPL-SN-576797	c 09	N69-24318 *	US-PATENT-APPL-SN-591014	c 28	N71-24736 *
US-PATENT-APPL-SN-561432	c 20	N86-26368 *	US-PATENT-APPL-SN-577114	c 15	N69-24320 *	US-PATENT-APPL-SN-591089	c 24	N85-21267 *
US-PATENT-APPL-SN-561433	c 35	N86-20752 *	US-PATENT-APPL-SN-577115	c 15	N71-17647 *	US-PATENT-APPL-SN-591568	c 74	N76-31998 *
US-PATENT-APPL-SN-561434	c 25	N85-30039 *	US-PATENT-APPL-SN-577545	c 08	N71-18693 *	US-PATENT-APPL-SN-591569	c 37	N77-12402 *
US-PATENT-APPL-SN-561435	c 27	N85-21352 *	US-PATENT-APPL-SN-577546	c 31	N71-23008 *	US-PATENT-APPL-SN-591930	c 03	N69-21330 *
US-PATENT-APPL-SN-561764	c 32	N77-10392 *	US-PATENT-APPL-SN-577548	c 09	N69-27422 *	US-PATENT-APPL-SN-592159	c 07	N76-27232 *
US-PATENT-APPL-SN-561956	c 35	N77-17426 *	US-PATENT-APPL-SN-577548	c 14	N72-28438 *	US-PATENT-APPL-SN-592680	c 15	N71-22877 *
US-PATENT-APPL-SN-562443	c 09	N69-39734 *	US-PATENT-APPL-SN-577549	c 15	N71-27271 *	US-PATENT-APPL-SN-592694	c 05	N71-12342 *
US-PATENT-APPL-SN-562444	c 14	N71-22995 *	US-PATENT-APPL-SN-577775	c 14	N71-17574 *	US-PATENT-APPL-SN-593142	c 37	N77-17464 *
US-PATENT-APPL-SN-562445	c 14	N71-23797 *	US-PATENT-APPL-SN-577778	c 03	N71-11050 *	US-PATENT-APPL-SN-593593	c 06	N71-11239 *
US-PATENT-APPL-SN-562499	c 32	N77-31350 *	US-PATENT-APPL-SN-578240	c 34	N77-18382 *	US-PATENT-APPL-SN-593594	c 06	N71-11236 *
US-PATENT-APPL-SN-562558	c 31	N79-21227 *	US-PATENT-APPL-SN-578241	c 52	N76-29896 *	US-PATENT-APPL-SN-593595	c 06	N71-24740 *
US-PATENT-APPL-SN-562933	c 10	N71-24799 *	US-PATENT-APPL-SN-578387	c 06	N87-22678 *	US-PATENT-APPL-SN-593604	c 11	N69-27466 *
US-PATENT-APPL-SN-562934	c 09	N69-21468 *	US-PATENT-APPL-SN-578388	c 06	N86-27280 *	US-PATENT-APPL-SN-593605	c 06	N71-11242 *
US-PATENT-APPL-SN-562992	c 27	N78-32261 *	US-PATENT-APPL-SN-578390	c 44	N85-30435 *	US-PATENT-APPL-SN-593606	c 06	N71-11243 *
US-PATENT-APPL-SN-563049	c 17	N76-29347 *	US-PATENT-APPL-SN-578397	c 20	N79-21124 *	US-PATENT-APPL-SN-593607	c 07	N71-26102 *
US-PATENT-APPL-SN-563050	c 37	N76-31524 *	US-PATENT-APPL-SN-578700	c 43	N82-13465 *	US-PATENT-APPL-SN-594134	c 74	N86-20125 *
US-PATENT-APPL-SN-563283	c 35	N76-18401 *	US-PATENT-APPL-SN-578916	c 14	N71-23356 *	US-PATENT-APPL-SN-594584	c 14	N71-25892 *
US-PATENT-APPL-SN-563644	c 15	N71-18613 *	US-PATENT-APPL-SN-578923	c 15	N71-21403 *	US-PATENT-APPL-SN-594587	c 28	N71-21493 *
US-PATENT-APPL-SN-563646	c 05	N71-23096 *	US-PATENT-APPL-SN-578925	c 23	N71-16355 *	US-PATENT-APPL-SN-594633	c 15	N71-24046 *
US-PATENT-APPL-SN-563648	c 15	N71-17803 *	US-PATENT-APPL-SN-578926	c 06	N69-39936 *	US-PATENT-APPL-SN-595197	c 33	N77-10429 *
US-PATENT-APPL-SN-563650	c 25	N69-21929 *	US-PATENT-APPL-SN-578928	c 26	N71-21824 *	US-PATENT-APPL-SN-595254	c 17	N78-17140 *
US-PATENT-APPL-SN-563651	c 28	N71-23293 *	US-PATENT-APPL-SN-578931	c 23	N71-21882 *	US-PATENT-APPL-SN-595745	c 37	N77-32501 *
US-PATENT-APPL-SN-563890	c 35	N85-34373 *	US-PATENT-APPL-SN-578932	c 08	N71-12505 *	US-PATENT-APPL-SN-595747	c 37	N77-32500 *
US-PATENT-APPL-SN-564622	c 37	N77-31497 *	US-PATENT-APPL-SN-579121	c 15	N71-29136 *	US-PATENT-APPL-SN-596338	c 09	N71-20816 *
US-PATENT-APPL-SN-564919	c 09	N71-23316 *	US-PATENT-APPL-SN-579300	c 20	N79-21123 *	US-PATENT-APPL-SN-596641	c 07	N77-23106 *
US-PATENT-APPL-SN-565162	c 35	N79-14348 *	US-PATENT-APPL-SN-579375	c 07	N77-14025 *	US-PATENT-APPL-SN-596641	c 37	N78-10467 *
US-PATENT-APPL-SN-565289	c 38	N77-17495 *	US-PATENT-APPL-SN-579376	c 20	N79-21125 *	US-PATENT-APPL-SN-596733	c 15	N72-11389 *
US-PATENT-APPL-SN-565290	c 17	N76-22245 *	US-PATENT-APPL-SN-579989	c 34	N77-32413 *	US-PATENT-APPL-SN-596735	c 32	N71-24285 *
US-PATENT-APPL-SN-565481	c 09	N86-32447 *	US-PATENT-APPL-SN-580365	c 15	N71-22253 *	US-PATENT-APPL-SN-596787	c 37	N77-19458 *
US-PATENT-APPL-SN-566392	c 14	N71-23175 *	US-PATENT-APPL-SN-580397	c 37	N87-21333 *	US-PATENT-APPL-SN-596787	c 37	N78-31426 *
US-PATENT-APPL-SN-566397	c 05	N71-23161 *	US-PATENT-APPL-SN-580419	c 34	N85-33433 *	US-PATENT-APPL-SN-596788	c 33	N76-21390 *
US-PATENT-APPL-SN-566493	c 44	N76-29701 *	US-PATENT-APPL-SN-580573	c 44	N85-34441 *	US-PATENT-APPL-SN-596805	c 24	N77-19170 *
US-PATENT-APPL-SN-566494	c 32	N77-30309 *	US-PATENT-APPL-SN-580574	c 18	N84-22610 *	US-PATENT-APPL-SN-596959	c 18	N84-22609 *
US-PATENT-APPL-SN-566495	c 33	N77-17351 *	US-PATENT-APPL-SN-58147	c 28	N70-33356 *	US-PATENT-APPL-SN-596959	c 18	N86-20469 *
US-PATENT-APPL-SN-566717	c 14	N71-24233 *	US-PATENT-APPL-SN-581514	c 70	N75-26789 *	US-PATENT-APPL-SN-596960	c 37	N85-33490 *
US-PATENT-APPL-SN-567686	c 15	N71-22994 *	US-PATENT-APPL-SN-581750	c 07	N78-17055 *	US-PATENT-APPL-SN-597430	c 44	N81-29525 *
US-PATENT-APPL-SN-567806	c 06	N71-22975 *	US-PATENT-APPL-SN-581751	c 37	N78-10468 *	US-PATENT-APPL-SN-597430	c 44	N82-28780 *
US-PATENT-APPL-SN-56791	c 10	N72-16172 *	US-PATENT-APPL-SN-581843	c 31	N79-21226 *	US-PATENT-APPL-SN-598118	c 15	N69-27490 *
US-PATENT-APPL-SN-568067	c 31	N71-22968 *	US-PATENT-APPL-SN-582171	c 32	N71-16428 *	US-PATENT-APPL-SN-598119	c 08	N71-19437 *
US-PATENT-APPL-SN-568071	c 14	N69-27461 *	US-PATENT-APPL-SN-582213	c 32	N74-22096 *	US-PATENT-APPL-SN-598120	c 08	N71-18602 *
US-PATENT-APPL-SN-568160	c 10	N71-18724 *	US-PATENT-APPL-SN-582318	c 33	N76-27472 *	US-PATENT-APPL-SN-598504	c 37	N77-14477 *
US-PATENT-APPL-SN-568346	c 04	N69-27487 *	US-PATENT-APPL-SN-582492	c 52	N85-30618 *	US-PATENT-APPL-SN-598777	c 27	N85-34281 *
US-PATENT-APPL-SN-568352	c 09	N71-20842 *	US-PATENT-APPL-SN-582494	c 36	N84-25037 *	US-PATENT-APPL-SN-598992	c 06	N73-30097 *
US-PATENT-APPL-SN-568354	c 14	N71-22752 *	US-PATENT-APPL-SN-582495	c 44	N86-27706 *	US-PATENT-APPL-SN-598992	c 15	N74-27360 *
US-PATENT-APPL-SN-568355	c 32	N71-23971 *	US-PATENT-APPL-SN-582609	c 10	N71-19467 *	US-PATENT-APPL-SN-598993	c 15	N72-25456 *
US-PATENT-APPL-SN-568356	c 14	N71-15599 *	US-PATENT-APPL-SN-582643	c 35	N85-34374 *	US-PATENT-APPL-SN-598994	c 23	N73-13662 *
US-PATENT-APPL-SN-568362	c 03	N69-39983 *	US-PATENT-APPL-SN-583055	c 07	N78-18067 *	US-PATENT-APPL-SN-598995	c 15	N72-20445 *
US-PATENT-APPL-SN-568364	c 10	N71-26418 *	US-PATENT-APPL-SN-583056	c 37	N78-17384 *	US-PATENT-APPL-SN-598997	c 31	N77-10229 *
US-PATENT-APPL-SN-568541	c 24	N77-28225 *	US-PATENT-APPL-SN-583219	c 43	N82-13465 *	US-PATENT-APPL-SN-598998	c 33	N77-17354 *
US-PATENT-APPL-SN-568541	c 27	N81-14077 *	US-PATENT-APPL-SN-583485	c 33	N77-28385 *	US-PATENT-APPL-SN-598999	c 44	N78-17460 *
US-PATENT-APPL-SN-568620	c 10	N71-26626 *	US-PATENT-APPL-SN-583486	c 33	N77-26386 *	US-PATENT-APPL-SN-599284	c 35	N77-14411 *
US-PATENT-APPL-SN-568987	c 10	N71-19547 *	US-PATENT-APPL-SN-583487	c 52	N76-17855 *	US-PATENT-APPL-SN-59956	c 14	N72-27411 *
US-PATENT-APPL-SN-569370	c 43	N84-23012 *	US-PATENT-APPL-SN-584015	c 14	N71-26475 *	US-PATENT-APPL-SN-59966	c 21	N72-25595 *
US-PATENT-APPL-SN-569372	c 76	N85-33826 *	US-PATENT-APPL-SN-584066	c 10	N71-20852 *	US-PATENT-APPL-SN-59968	c 15	N72-27484 *
US-PATENT-APPL-SN-569925	c 07	N77-17059 *	US-PATENT-APPL-SN-584067	c 07	N71-12392 *	US-PATENT-APPL-SN-59969	c 09	N72-25249 *
US-PATENT-APPL-SN-570093	c 06	N71-17705 *	US-PATENT-APPL-SN-584070	c 09	N69-27500 *	US-PATENT-APPL-SN-599975	c 08	N69-21928 *
US-PATENT-AP								

US-PATENT-APPL-SN-601228	c 15	N71-17652 *	US-PATENT-APPL-SN-618594	c 37	N77-13418 *	US-PATENT-APPL-SN-638586	c 32	N87-21207 *
US-PATENT-APPL-SN-601229	c 14	N71-26474 *	US-PATENT-APPL-SN-61894	c 12	N72-21310 *	US-PATENT-APPL-SN-638707	c 14	N69-27486 * #
US-PATENT-APPL-SN-602049	c 35	N86-32697 *	US-PATENT-APPL-SN-61895	c 07	N72-33146 *	US-PATENT-APPL-SN-639589	c 28	N70-33372 *
US-PATENT-APPL-SN-602617	c 37	N77-23483 *	US-PATENT-APPL-SN-618969	c 05	N71-26333 *	US-PATENT-APPL-SN-640154	c 09	N71-18600 *
US-PATENT-APPL-SN-602618	c 44	N76-31667 *	US-PATENT-APPL-SN-619519	c 32	N71-16106 *	US-PATENT-APPL-SN-640447	c 15	N71-19486 *
US-PATENT-APPL-SN-60276	c 22	N73-32528 *	US-PATENT-APPL-SN-619520	c 05	N69-21380 * #	US-PATENT-APPL-SN-640448	c 08	N71-19420 *
US-PATENT-APPL-SN-602828	c 09	N71-13531 *	US-PATENT-APPL-SN-619521	c 06	N69-39889 * #	US-PATENT-APPL-SN-640449	c 09	N71-19516 *
US-PATENT-APPL-SN-603373	c 28	N84-29017 * #	US-PATENT-APPL-SN-619903	c 15	N69-27505 * #	US-PATENT-APPL-SN-640450	c 15	N71-17694 *
US-PATENT-APPL-SN-603374	c 37	N86-19606 *	US-PATENT-APPL-SN-619907	c 09	N69-21543 * #	US-PATENT-APPL-SN-640452	c 09	N71-12513 *
US-PATENT-APPL-SN-603396	c 14	N69-23191 * #	US-PATENT-APPL-SN-619908	c 08	N71-20571 *	US-PATENT-APPL-SN-640453	c 23	N71-16099 *
US-PATENT-APPL-SN-603397	c 26	N71-23292 *	US-PATENT-APPL-SN-619986	c 37	N75-32465 * #	US-PATENT-APPL-SN-640454	c 06	N71-11238 *
US-PATENT-APPL-SN-604337	c 27	N85-29044 *	US-PATENT-APPL-SN-620675	c 35	N78-19466 *	US-PATENT-APPL-SN-640455	c 10	N71-23099 *
US-PATENT-APPL-SN-604374	c 44	N76-29699 *	US-PATENT-APPL-SN-621098	c 09	N71-20446 *	US-PATENT-APPL-SN-640456	c 03	N71-26726 *
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US-PATENT-APPL-SN-605091	c 15	N71-26346 *	US-PATENT-APPL-SN-621715	c 05	N71-11207 *	US-PATENT-APPL-SN-640458	c 15	N71-23811 *
US-PATENT-APPL-SN-605092	c 05	N71-23317 *	US-PATENT-APPL-SN-621742	c 28	N71-23968 *	US-PATENT-APPL-SN-640459	c 10	N71-18723 *
US-PATENT-APPL-SN-605093	c 17	N71-24911 *	US-PATENT-APPL-SN-623156	c 04	N77-19056 *	US-PATENT-APPL-SN-640460	c 14	N69-21541 * #
US-PATENT-APPL-SN-605094	c 09	N71-24808 *	US-PATENT-APPL-SN-623187	c 34	N77-19353 *	US-PATENT-APPL-SN-640462	c 15	N71-20443 *
US-PATENT-APPL-SN-605095	c 10	N71-19417 *	US-PATENT-APPL-SN-623188	c 54	N77-21844 *	US-PATENT-APPL-SN-640781	c 24	N85-35233 *
US-PATENT-APPL-SN-605096	c 15	N71-24834 *	US-PATENT-APPL-SN-623238	c 51	N77-25769 *	US-PATENT-APPL-SN-640782	c 03	N69-25146 * #
US-PATENT-APPL-SN-605097	c 14	N69-21923 * #	US-PATENT-APPL-SN-623389	c 31	N81-15154 *	US-PATENT-APPL-SN-640783	c 09	N71-26000 *
US-PATENT-APPL-SN-605098	c 09	N71-26092 *	US-PATENT-APPL-SN-623536	c 09	N78-18083 *	US-PATENT-APPL-SN-640784	c 15	N69-39935 * #
US-PATENT-APPL-SN-605099	c 09	N71-23548 *	US-PATENT-APPL-SN-625077	c 44	N86-25874 *	US-PATENT-APPL-SN-640785	c 09	N69-24333 * #
US-PATENT-APPL-SN-605100	c 15	N71-21536 *	US-PATENT-APPL-SN-625732	c 35	N77-18417 *	US-PATENT-APPL-SN-640786	c 15	N71-24695 *
US-PATENT-APPL-SN-605102	c 09	N69-39987 * #	US-PATENT-APPL-SN-625733	c 26	N77-28265 *	US-PATENT-APPL-SN-640787	c 28	N71-24321 *
US-PATENT-APPL-SN-60531	c 28	N70-37980 *	US-PATENT-APPL-SN-625734	c 35	N78-10428 *	US-PATENT-APPL-SN-640788	c 15	N69-27502 * #
US-PATENT-APPL-SN-60536	c 02	N70-38009 *	US-PATENT-APPL-SN-625759	c 37	N77-14478 *	US-PATENT-APPL-SN-640789	c 15	N69-27504 * #
US-PATENT-APPL-SN-605518	c 15	N71-23023 *	US-PATENT-APPL-SN-625781	c 33	N77-31404 *	US-PATENT-APPL-SN-641142	c 23	N86-32525 *
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US-PATENT-APPL-SN-605994	c 06	N73-30101 *	US-PATENT-APPL-SN-626942	c 51	N77-27677 *	US-PATENT-APPL-SN-641146	c 76	N87-13313 *
US-PATENT-APPL-SN-606027	c 06	N73-30099 *	US-PATENT-APPL-SN-627257	c 08	N71-12504 *	US-PATENT-APPL-SN-641147	c 27	N87-23751 *
US-PATENT-APPL-SN-606036	c 06	N73-30100 *	US-PATENT-APPL-SN-627599	c 18	N71-16046 *	US-PATENT-APPL-SN-641152	c 23	N87-28605 *
US-PATENT-APPL-SN-606426	c 74	N86-29650 * #	US-PATENT-APPL-SN-628094	c 16	N71-20400 *	US-PATENT-APPL-SN-641153	c 27	N86-32568 * #
US-PATENT-APPL-SN-606431	c 37	N86-25791 *	US-PATENT-APPL-SN-628221	c 07	N78-18066 *	US-PATENT-APPL-SN-641420	c 03	N71-23449 *
US-PATENT-APPL-SN-606432	c 74	N87-21679 *	US-PATENT-APPL-SN-628246	c 15	N71-17687 *	US-PATENT-APPL-SN-641431	c 30	N71-16090 *
US-PATENT-APPL-SN-606462	c 08	N71-24891 *	US-PATENT-APPL-SN-628247	c 09	N69-21542 * #	US-PATENT-APPL-SN-641441	c 08	N71-18751 *
US-PATENT-APPL-SN-606463	c 14	N71-24864 *	US-PATENT-APPL-SN-628248	c 14	N69-27432 * #	US-PATENT-APPL-SN-641784	c 37	N77-32499 *
US-PATENT-APPL-SN-606464	c 15	N71-18579 *	US-PATENT-APPL-SN-628666	c 31	N85-20153 *	US-PATENT-APPL-SN-641802	c 34	N77-30399 *
US-PATENT-APPL-SN-606891	c 44	N77-14581 *	US-PATENT-APPL-SN-629456	c 37	N77-14479 *	US-PATENT-APPL-SN-641803	c 35	N78-18391 *
US-PATENT-APPL-SN-607461	c 05	N71-12346 *	US-PATENT-APPL-SN-629457	c 35	N77-32454 *	US-PATENT-APPL-SN-642224	c 17	N70-38490 *
US-PATENT-APPL-SN-607484	c 09	N71-26002 *	US-PATENT-APPL-SN-629458	c 35	N78-17357 *	US-PATENT-APPL-SN-642226	c 17	N70-38198 *
US-PATENT-APPL-SN-607608	c 14	N69-27484 * #	US-PATENT-APPL-SN-629759	c 15	N71-16076 *	US-PATENT-APPL-SN-642310	c 44	N86-19721 *
US-PATENT-APPL-SN-607969	c 09	N76-23273 *	US-PATENT-APPL-SN-630579	c 35	N77-24454 *	US-PATENT-APPL-SN-642602	c 54	N86-29507 * #
US-PATENT-APPL-SN-608247	c 15	N71-20813 *	US-PATENT-APPL-SN-630583	c 33	N77-24375 *	US-PATENT-APPL-SN-643041	c 44	N78-19599 *
US-PATENT-APPL-SN-608482	c 74	N77-20882 *	US-PATENT-APPL-SN-631341	c 60	N78-17691 *	US-PATENT-APPL-SN-643043	c 35	N78-13400 *
US-PATENT-APPL-SN-608483	c 09	N77-19076 *	US-PATENT-APPL-SN-631444	c 16	N72-28521 *	US-PATENT-APPL-SN-643332	c 15	N71-14932 *
US-PATENT-APPL-SN-608741	c 23	N85-28973 *	US-PATENT-APPL-SN-631848	c 09	N71-12514 *	US-PATENT-APPL-SN-643522	c 16	N86-26352 *
US-PATENT-APPL-SN-608876	c 15	N72-27485 *	US-PATENT-APPL-SN-63195	c 14	N72-27408 *	US-PATENT-APPL-SN-643524	c 27	N86-29039 *
US-PATENT-APPL-SN-608881	c 32	N72-25877 *	US-PATENT-APPL-SN-632104	c 09	N71-19470 *	US-PATENT-APPL-SN-643589	c 27	N86-31727 *
US-PATENT-APPL-SN-608882	c 05	N73-32011 *	US-PATENT-APPL-SN-632111	c 37	N79-10422 *	US-PATENT-APPL-SN-643897	c 73	N78-32848 *
US-PATENT-APPL-SN-608893	c 10	N73-13235 *	US-PATENT-APPL-SN-632112	c 35	N77-22449 *	US-PATENT-APPL-SN-643931	c 31	N72-25842 *
US-PATENT-APPL-SN-608944	c 15	N71-23798 *	US-PATENT-APPL-SN-632152	c 10	N71-24798 *	US-PATENT-APPL-SN-644444	c 09	N71-18721 *
US-PATENT-APPL-SN-609050	c 04	N73-27052 *	US-PATENT-APPL-SN-632154	c 09	N69-39984 * #	US-PATENT-APPL-SN-644446	c 14	N71-24693 *
US-PATENT-APPL-SN-610723	c 14	N71-23755 *	US-PATENT-APPL-SN-632162	c 14	N69-39937 * #	US-PATENT-APPL-SN-644447	c 14	N71-24234 *
US-PATENT-APPL-SN-610724	c 31	N71-28851 *	US-PATENT-APPL-SN-632163	c 30	N71-23723 *	US-PATENT-APPL-SN-644448	c 17	N69-25147 * #
US-PATENT-APPL-SN-610728	c 31	N71-22969 *	US-PATENT-APPL-SN-632164	c 15	N69-24319 * #	US-PATENT-APPL-SN-644799	c 17	N71-15468 *
US-PATENT-APPL-SN-610801	c 76	N77-32919 *	US-PATENT-APPL-SN-632165	c 15	N71-26266 *	US-PATENT-APPL-SN-645500	c 74	N77-28932 *
US-PATENT-APPL-SN-610802	c 35	N77-20400 *	US-PATENT-APPL-SN-633178	c 24	N84-32447 * #	US-PATENT-APPL-SN-645502	c 24	N79-25143 *
US-PATENT-APPL-SN-611414	c 46	N74-23068 *	US-PATENT-APPL-SN-633179	c 34	N86-12547 *	US-PATENT-APPL-SN-645507	c 26	N77-32280 *
US-PATENT-APPL-SN-611414	c 46	N74-23069 *	US-PATENT-APPL-SN-633180	c 09	N84-32398 * #	US-PATENT-APPL-SN-645508	c 44	N77-14580 *
US-PATENT-APPL-SN-612265	c 14	N72-22442 *	US-PATENT-APPL-SN-633363	c 25	N86-25428 *	US-PATENT-APPL-SN-645510	c 32	N77-30308 *
US-PATENT-APPL-SN-612568	c 15	N71-28952 *	US-PATENT-APPL-SN-633383	c 08	N72-20177 *	US-PATENT-APPL-SN-645563	c 31	N71-20396 *
US-PATENT-APPL-SN-612740	c 25	N71-20563 *	US-PATENT-APPL-SN-633384	c 05	N72-22093 *	US-PATENT-APPL-SN-645571	c 35	N77-14407 *
US-PATENT-APPL-SN-612899	c 07	N77-18154 *	US-PATENT-APPL-SN-633876	c 27	N78-19302 *	US-PATENT-APPL-SN-645573	c 24	N71-25555 *
US-PATENT-APPL-SN-612964	c 20	N77-10148 *	US-PATENT-APPL-SN-633877	c 27	N77-13217 *	US-PATENT-APPL-SN-645584	c 08	N71-12494 *
US-PATENT-APPL-SN-612965	c 52	N77-14735 *	US-PATENT-APPL-SN-634038	c 25	N71-16073 *	US-PATENT-APPL-SN-646044	c 37	N85-34403 *
US-PATENT-APPL-SN-612966	c 35	N78-12390 *	US-PATENT-APPL-SN-634040	c 15	N71-19489 *	US-PATENT-APPL-SN-646124	c 15	N71-23817 *
US-PATENT-APPL-SN-612967	c 74	N77-18893 *	US-PATENT-APPL-SN-634060	c 09	N69-39897 * #	US-PATENT-APPL-SN-646333	c 35	N80-26635 *
US-PATENT-APPL-SN-613004	c 71	N77-26919 *	US-PATENT-APPL-SN-634205	c 35	N77-14406 *	US-PATENT-APPL-SN-646424	c 07	N69-27460 * #
US-PATENT-APPL-SN-613139	c 27	N86-27450 *	US-PATENT-APPL-SN-634214	c 73	N78-28913 *	US-PATENT-APPL-SN-646704	c 36	N77-25499 *
US-PATENT-APPL-SN-613140	c 33	N86-20669 *	US-PATENT-APPL-SN-634304	c 27	N79-18052 *	US-PATENT-APPL-SN-646934	c 08	N71-18692 *
US-PATENT-APPL-SN-613235	c 14	N73-30394 *	US-PATENT-APPL-SN-635325	c 14	N69-27431 * #	US-PATENT-APPL-SN-64709	c 10	N72-28240 *
US-PATENT-APPL-SN-61329	c 31	N70-37986 *	US-PATENT-APPL-SN-635326	c 14	N71-18482 *	US-PATENT-APPL-SN-64723	c 07	N72-25170 *
US-PATENT-APPL-SN-613734	c 52	N77-14738 *	US-PATENT-APPL-SN-635327	c 12	N69-39988 * #	US-PATENT-APPL-SN-647298	c 31	N71-16102 *
US-PATENT-APPL-SN-613979	c 33	N71-14035 *	US-PATENT-APPL-SN-635328	c 09	N69-21467 * #	US-PATENT-APPL-SN-648034	c 09	N79-21083 *
US-PATENT-APPL-SN-615030	c 35	N78-19465 *	US-PATENT-APPL-SN-635332	c 08	N72-25209 *	US-PATENT-APPL-SN-648700	c 74	N78-13874 *
US-PATENT-APPL-SN-61535	c 15	N72-25453 *	US-PATENT-APPL-SN-635519	c 35	N77-24455 *	US-PATENT-APPL-SN-649075	c 14	N71-15600 *
US-PATENT-APPL-SN-615505	c 34	N85-29180 *	US-PATENT-APPL-SN-635531	c 33	N77-14334 *	US-PATENT-APPL-SN-649076	c 08	N71-24890 *
US-PATENT-APPL-SN-616002	c 34	N86-27593 *	US-PATENT-APPL-SN-635970	c 15	N69-21465 * #	US-PATENT-APPL-SN-649078	c 07	N71-19493 *
US-PATENT-APPL-SN-616332	c 24	N77-27188 *	US-PATENT-APPL-SN-635972	c 18	N71-23710 *	US-PATENT-APPL-SN-649327	c 33	N87-25531 *
US-PATENT-APPL-SN-616333	c 33	N76-32457 *	US-PATENT-APPL-SN-63610	c 06	N72-25147 *	US-PATENT-APPL-SN-649328	c 27	N86-19456 *
US-PATENT-APPL-SN-616472	c 74	N77-22951 *	US-PATENT-APPL-SN-636193	c 04	N78-15880 *	US-PATENT-APPL-SN-649329	c 05	N84-33400 * #
US-PATENT-APPL-SN-616528	c 24	N80-33482 *	US-PATENT-APPL-SN-636459	c 44	N87-21410 *	US-PATENT-APPL-SN-649330	c 27	N86-19458 *
US-PATENT-APPL-SN-617021	c 23	N71-16101 *	US-PATENT-APPL-SN-636463	c 20	N87-16875 *	US-PATENT-APPL-SN-649356	c 09	N71-23189 *
US-PATENT-APPL-SN-617022	c 07	N69-27462 * #	US-PATENT-APPL-SN-636465	c 37	N85-29284 *	US-PATENT-APPL-SN-649357	c 08	N71-12500 *
US-PATENT-APPL-SN-617202	c 74	N77-28933 *	US-PATENT-APPL-SN-636796	c 35	N78-17358 *	US-PATENT-APPL-SN-649358	c 07	N71-11267 *
US-PATENT-APPL-SN-617612	c 52	N77-10780 *	US-PATENT-APPL-SN-636878	c 14	N71-20442 *	US-PATENT-APPL-SN-649359	c 15	N71-18701 *
US-PATENT-APPL-SN-617770	c 14	N71-23267 *	US-PATENT-APPL-SN-637247	c 35	N77-10493 *	US-PATENT-APPL-SN-649360	c 23	N71-16365 *
US-PATENT-APPL-SN-617774	c 18	N71-16124 *	US-PATENT-APPL-SN-637249	c 38	N76-28563 *	US-PATENT-APPL-SN-650166	c 09	N71-23191 *
US-PATENT-APPL-SN-617775	c 06	N71-28807 *	US-PATENT-APPL-SN-637268	c 47	N77-10753 *	US-PATENT-APPL-SN-651002	c 08	N79-14108 *
US-PATENT-APPL-SN-617776	c 18	N69-39895 * #	US-PATENT-APPL-SN-637269	c 52	N77-28717 *	US-PATENT-APPL-SN-651007	c 74	N78-17865 *
US-PATENT-APPL-SN-617778	c 14	N71-26244 *	US-PATENT-APPL-SN-637882	c 15	N71-17650 *	US-PATENT-APPL-SN-651009	c 26	N78-18182 *
US-PATENT-APPL-SN-617779	c 09	N69-39929 * #	US-PATENT-APPL-SN-638192	c				

US-PATENT-APPL-SN-653277	c 31	N71-23912 *	US-PATENT-APPL-SN-668751	c 06	N71-11237 *	US-PATENT-APPL-SN-683073	c 44	N82-28780 *
US-PATENT-APPL-SN-653278	c 14	N69-27503 #	US-PATENT-APPL-SN-668755	c 15	N71-17693 *	US-PATENT-APPL-SN-683101	c 33	N87-21235 *
US-PATENT-APPL-SN-653316	c 25	N77-32255 *	US-PATENT-APPL-SN-668771	c 35	N78-32397 *	US-PATENT-APPL-SN-683111	c 33	N87-22894 *
US-PATENT-APPL-SN-653422	c 35	N77-20401 *	US-PATENT-APPL-SN-668783	c 28	N80-10374 *	US-PATENT-APPL-SN-683465	c 27	N82-29451 *
US-PATENT-APPL-SN-653582	c 39	N78-10493 *	US-PATENT-APPL-SN-668968	c 09	N71-12515 *	US-PATENT-APPL-SN-683507	c 15	N71-15609 *
US-PATENT-APPL-SN-654787	c 07	N77-32148 *	US-PATENT-APPL-SN-668969	c 08	N71-19288 *	US-PATENT-APPL-SN-683606	c 09	N71-24717 *
US-PATENT-APPL-SN-655149	c 07	N77-23106 *	US-PATENT-APPL-SN-668971	c 07	N78-33101 *	US-PATENT-APPL-SN-683612	c 01	N69-39981 #
US-PATENT-APPL-SN-655548	c 18	N70-39897 *	US-PATENT-APPL-SN-669140	c 44	N86-32875 *	US-PATENT-APPL-SN-683613	c 15	N71-15560 *
US-PATENT-APPL-SN-655601	c 32	N86-27513 *	US-PATENT-APPL-SN-669336	c 15	N71-17651 *	US-PATENT-APPL-SN-684045	c 07	N80-26298 *
US-PATENT-APPL-SN-655605	c 52	N87-24874 *	US-PATENT-APPL-SN-669911	c 33	N78-17295 *	US-PATENT-APPL-SN-684083	c 09	N71-24596 *
US-PATENT-APPL-SN-655606	c 32	N85-20226 #	US-PATENT-APPL-SN-669928	c 44	N77-22607 *	US-PATENT-APPL-SN-684171	c 26	N78-18183 *
US-PATENT-APPL-SN-655675	c 17	N71-24142 *	US-PATENT-APPL-SN-670814	c 03	N71-19545 *	US-PATENT-APPL-SN-684178	c 15	N71-23812 *
US-PATENT-APPL-SN-655677	c 08	N71-19432 *	US-PATENT-APPL-SN-670829	c 28	N72-23809 *	US-PATENT-APPL-SN-684190	c 54	N86-28619 *
US-PATENT-APPL-SN-655724	c 15	N71-22706 *	US-PATENT-APPL-SN-672209	c 52	N82-22875 *	US-PATENT-APPL-SN-684192	c 54	N86-28620 *
US-PATENT-APPL-SN-656952	c 09	N71-12519 *	US-PATENT-APPL-SN-672210	c 25	N78-10224 *	US-PATENT-APPL-SN-684193	c 54	N86-28618 *
US-PATENT-APPL-SN-656953	c 14	N71-17585 *	US-PATENT-APPL-SN-672219	c 37	N80-28711 *	US-PATENT-APPL-SN-684194	c 35	N85-20300 #
US-PATENT-APPL-SN-656993	c 09	N71-24843 *	US-PATENT-APPL-SN-672219	c 37	N81-26447 *	US-PATENT-APPL-SN-684209	c 10	N71-19418 *
US-PATENT-APPL-SN-656995	c 21	N71-14132 *	US-PATENT-APPL-SN-672220	c 31	N78-17237 *	US-PATENT-APPL-SN-684807	c 75	N78-27913 *
US-PATENT-APPL-SN-657309	c 31	N86-29055 *	US-PATENT-APPL-SN-672221	c 07	N78-27121 *	US-PATENT-APPL-SN-684894	c 17	N71-26773 *
US-PATENT-APPL-SN-657310	c 35	N87-14670 *	US-PATENT-APPL-SN-672222	c 07	N78-25090 *	US-PATENT-APPL-SN-685027	c 25	N78-10225 *
US-PATENT-APPL-SN-657742	c 18	N71-26100 *	US-PATENT-APPL-SN-672223	c 51	N78-27733 *	US-PATENT-APPL-SN-685463	c 15	N71-23254 *
US-PATENT-APPL-SN-657903	c 07	N83-33884 *	US-PATENT-APPL-SN-672224	c 37	N86-25790 *	US-PATENT-APPL-SN-685473	c 17	N71-16004 *
US-PATENT-APPL-SN-657907	c 27	N78-17213 *	US-PATENT-APPL-SN-672382	c 15	N71-23815 *	US-PATENT-APPL-SN-685497	c 07	N69-39974 #
US-PATENT-APPL-SN-657995	c 35	N77-22450 *	US-PATENT-APPL-SN-672383	c 15	N71-20405 *	US-PATENT-APPL-SN-685607	c 37	N86-21850 *
US-PATENT-APPL-SN-657996	c 60	N78-10709 *	US-PATENT-APPL-SN-672384	c 15	N71-27067 *	US-PATENT-APPL-SN-685748	c 07	N71-11282 *
US-PATENT-APPL-SN-657997	c 60	N77-32731 *	US-PATENT-APPL-SN-672388	c 26	N72-17820 *	US-PATENT-APPL-SN-685750	c 27	N71-16392 *
US-PATENT-APPL-SN-657998	c 27	N78-32262 *	US-PATENT-APPL-SN-672636	c 37	N79-11405 *	US-PATENT-APPL-SN-685764	c 14	N69-27459 #
US-PATENT-APPL-SN-658132	c 44	N77-32580 *	US-PATENT-APPL-SN-672695	c 27	N78-17206 *	US-PATENT-APPL-SN-685766	c 15	N69-21924 #
US-PATENT-APPL-SN-658133	c 71	N78-10837 *	US-PATENT-APPL-SN-672815	c 37	N77-23482 *	US-PATENT-APPL-SN-685787	c 14	N71-18625 *
US-PATENT-APPL-SN-658400	c 10	N72-20225 *	US-PATENT-APPL-SN-673226	c 08	N71-12502 *	US-PATENT-APPL-SN-686209	c 15	N71-23809 *
US-PATENT-APPL-SN-658449	c 32	N77-20289 *	US-PATENT-APPL-SN-673227	c 11	N71-24964 *	US-PATENT-APPL-SN-686248	c 14	N71-26774 *
US-PATENT-APPL-SN-658450	c 37	N77-22482 *	US-PATENT-APPL-SN-673228	c 07	N71-19433 *	US-PATENT-APPL-SN-686296	c 18	N71-14014 *
US-PATENT-APPL-SN-658487	c 37	N81-25371 *	US-PATENT-APPL-SN-673229	c 33	N71-15641 *	US-PATENT-APPL-SN-686331	c 38	N78-32447 *
US-PATENT-APPL-SN-658955	c 14	N71-15605 *	US-PATENT-APPL-SN-673685	c 60	N87-21591 *	US-PATENT-APPL-SN-686344	c 15	N71-17688 *
US-PATENT-APPL-SN-658956	c 15	N71-15607 *	US-PATENT-APPL-SN-674194	c 27	N78-17215 *	US-PATENT-APPL-SN-686449	c 34	N78-18355 *
US-PATENT-APPL-SN-658957	c 14	N71-17584 *	US-PATENT-APPL-SN-674195	c 74	N78-17866 *	US-PATENT-APPL-SN-686796	c 15	N70-33311 *
US-PATENT-APPL-SN-658964	c 19	N71-26674 *	US-PATENT-APPL-SN-674355	c 14	N71-20429 *	US-PATENT-APPL-SN-686933	c 14	N71-17588 *
US-PATENT-APPL-SN-658999	c 44	N82-24645 *	US-PATENT-APPL-SN-674356	c 14	N71-23699 *	US-PATENT-APPL-SN-686959	c 02	N85-28922 #
US-PATENT-APPL-SN-659474	c 35	N86-26595 *	US-PATENT-APPL-SN-674357	c 05	N71-12351 *	US-PATENT-APPL-SN-687251	c 52	N79-12694 *
US-PATENT-APPL-SN-659475	c 31	N86-32587 *	US-PATENT-APPL-SN-674395	c 76	N87-23286 *	US-PATENT-APPL-SN-687822	c 44	N78-14625 *
US-PATENT-APPL-SN-659882	c 37	N78-13436 *	US-PATENT-APPL-SN-674700	c 27	N77-31308 *	US-PATENT-APPL-SN-688742	c 15	N71-20441 *
US-PATENT-APPL-SN-66004	c 15	N72-25450 *	US-PATENT-APPL-SN-675238	c 10	N71-26374 *	US-PATENT-APPL-SN-688743	c 15	N71-20393 *
US-PATENT-APPL-SN-660571	c 26	N71-23654 *	US-PATENT-APPL-SN-675328	c 35	N78-15461 *	US-PATENT-APPL-SN-688805	c 14	N71-17701 *
US-PATENT-APPL-SN-660572	c 15	N71-15571 *	US-PATENT-APPL-SN-675351	c 35	N78-10429 *	US-PATENT-APPL-SN-688807	c 03	N71-23239 *
US-PATENT-APPL-SN-660573	c 15	N71-28936 *	US-PATENT-APPL-SN-676012	c 05	N71-11193 *	US-PATENT-APPL-SN-688852	c 44	N78-28594 *
US-PATENT-APPL-SN-660841	c 14	N71-15621 *	US-PATENT-APPL-SN-676375	c 14	N71-18483 *	US-PATENT-APPL-SN-688854	c 54	N77-32722 *
US-PATENT-APPL-SN-660842	c 14	N71-23726 *	US-PATENT-APPL-SN-676386	c 08	N71-12507 *	US-PATENT-APPL-SN-688856	c 54	N78-32720 *
US-PATENT-APPL-SN-660843	c 08	N71-24650 *	US-PATENT-APPL-SN-676387	c 10	N71-25950 *	US-PATENT-APPL-SN-688868	c 15	N71-17686 *
US-PATENT-APPL-SN-6610	c 15	N72-22492 *	US-PATENT-APPL-SN-676391	c 21	N71-11766 *	US-PATENT-APPL-SN-689455	c 54	N74-32546 *
US-PATENT-APPL-SN-661170	c 14	N71-24809 *	US-PATENT-APPL-SN-676432	c 28	N78-24365 *	US-PATENT-APPL-SN-690163	c 14	N71-18465 *
US-PATENT-APPL-SN-6615	c 03	N72-25019 *	US-PATENT-APPL-SN-676432	c 28	N80-20402 *	US-PATENT-APPL-SN-690172	c 11	N72-22245 *
US-PATENT-APPL-SN-6616	c 03	N72-22042 *	US-PATENT-APPL-SN-676432	c 28	N81-14103 *	US-PATENT-APPL-SN-690273	c 20	N87-14420 *
US-PATENT-APPL-SN-6617	c 15	N72-22488 *	US-PATENT-APPL-SN-676433	c 52	N77-28716 *	US-PATENT-APPL-SN-690274	c 05	N87-14314 *
US-PATENT-APPL-SN-66206	c 11	N73-13257 *	US-PATENT-APPL-SN-676957	c 32	N77-18307 *	US-PATENT-APPL-SN-690815	c 32	N77-24328 *
US-PATENT-APPL-SN-662175	c 09	N77-27131 *	US-PATENT-APPL-SN-676958	c 54	N76-22914 *	US-PATENT-APPL-SN-690816	c 37	N78-25426 *
US-PATENT-APPL-SN-662176	c 32	N77-21267 *	US-PATENT-APPL-SN-676958	c 52	N81-25661 *	US-PATENT-APPL-SN-690997	c 16	N71-24828 *
US-PATENT-APPL-SN-662181	c 25	N82-21269 *	US-PATENT-APPL-SN-67730	c 15	N73-13463 *	US-PATENT-APPL-SN-690998	c 30	N71-15990 *
US-PATENT-APPL-SN-662182	c 37	N78-27424 *	US-PATENT-APPL-SN-677351	c 35	N77-32455 *	US-PATENT-APPL-SN-691046	c 36	N77-25501 *
US-PATENT-APPL-SN-662182	c 35	N79-26372 *	US-PATENT-APPL-SN-677352	c 43	N78-10529 *	US-PATENT-APPL-SN-691256	c 35	N77-31465 *
US-PATENT-APPL-SN-662763	c 15	N73-12489 *	US-PATENT-APPL-SN-677353	c 52	N78-14773 *	US-PATENT-APPL-SN-691647	c 52	N82-11770 *
US-PATENT-APPL-SN-662828	c 11	N71-18578 *	US-PATENT-APPL-SN-677475	c 32	N71-26681 *	US-PATENT-APPL-SN-691735	c 09	N71-12520 *
US-PATENT-APPL-SN-662829	c 15	N71-15597 *	US-PATENT-APPL-SN-677476	c 14	N71-17586 *	US-PATENT-APPL-SN-691736	c 18	N71-16210 *
US-PATENT-APPL-SN-663008	c 37	N77-28486 *	US-PATENT-APPL-SN-677505	c 09	N71-13521 *	US-PATENT-APPL-SN-691737	c 07	N71-24742 *
US-PATENT-APPL-SN-663180	c 10	N71-23663 *	US-PATENT-APPL-SN-677506	c 16	N71-15567 *	US-PATENT-APPL-SN-691738	c 08	N71-18694 *
US-PATENT-APPL-SN-663840	c 27	N86-20561 *	US-PATENT-APPL-SN-677508	c 16	N71-15551 *	US-PATENT-APPL-SN-691739	c 32	N71-15974 *
US-PATENT-APPL-SN-664091	c 43	N79-17288 *	US-PATENT-APPL-SN-678115	c 28	N72-22771 *	US-PATENT-APPL-SN-691909	c 05	N71-24606 *
US-PATENT-APPL-SN-665032	c 74	N77-22950 *	US-PATENT-APPL-SN-678520	c 20	N78-24275 *	US-PATENT-APPL-SN-691936	c 26	N77-32279 *
US-PATENT-APPL-SN-665033	c 20	N77-20162 *	US-PATENT-APPL-SN-678700	c 05	N71-19439 *	US-PATENT-APPL-SN-692009	c 15	N72-21463 *
US-PATENT-APPL-SN-665209	c 14	N71-23725 *	US-PATENT-APPL-SN-678813	c 33	N81-29342 *	US-PATENT-APPL-SN-692284	c 27	N78-14164 *
US-PATENT-APPL-SN-665209	c 14	N71-19568 *	US-PATENT-APPL-SN-679055	c 08	N71-24633 *	US-PATENT-APPL-SN-692331	c 10	N71-26326 *
US-PATENT-APPL-SN-665676	c 14	N71-19568 *	US-PATENT-APPL-SN-679862	c 20	N71-16340 *	US-PATENT-APPL-SN-692332	c 07	N71-11281 *
US-PATENT-APPL-SN-665679	c 15	N71-20395 *	US-PATENT-APPL-SN-679862	c 09	N71-12521 *	US-PATENT-APPL-SN-692413	c 25	N78-25148 *
US-PATENT-APPL-SN-665680	c 24	N71-16213 *	US-PATENT-APPL-SN-679980	c 44	N82-24642 *	US-PATENT-APPL-SN-692414	c 32	N77-24331 *
US-PATENT-APPL-SN-665681	c 15	N71-18616 *	US-PATENT-APPL-SN-679987	c 44	N82-24644 *	US-PATENT-APPL-SN-692471	c 09	N71-12518 *
US-PATENT-APPL-SN-665734	c 35	N78-18390 *	US-PATENT-APPL-SN-679996	c 44	N82-24643 *	US-PATENT-APPL-SN-692636	c 27	N81-24258 *
US-PATENT-APPL-SN-666551	c 14	N71-23698 *	US-PATENT-APPL-SN-680015	c 52	N79-14750 *	US-PATENT-APPL-SN-692745	c 36	N87-17026 *
US-PATENT-APPL-SN-666553	c 03	N71-11055 *	US-PATENT-APPL-SN-680048	c 44	N82-24641 *	US-PATENT-APPL-SN-692801	c 37	N87-22977 *
US-PATENT-APPL-SN-666554	c 33	N71-16104 *	US-PATENT-APPL-SN-680067	c 07	N77-27116 *	US-PATENT-APPL-SN-692802	c 37	N87-17034 *
US-PATENT-APPL-SN-666555	c 07	N71-24614 *	US-PATENT-APPL-SN-680023	c 05	N72-33096 *	US-PATENT-APPL-SN-692875	c 37	N86-20788 *
US-PATENT-APPL-SN-666992	c 27	N77-30236 *	US-PATENT-APPL-SN-680024	c 17	N72-22535 *	US-PATENT-APPL-SN-693074	c 44	N78-24609 *
US-PATENT-APPL-SN-667010	c 34	N77-27345 *	US-PATENT-APPL-SN-680038	c 74	N77-26942 *	US-PATENT-APPL-SN-693419	c 31	N71-16222 *
US-PATENT-APPL-SN-667625	c 31	N71-15674 *	US-PATENT-APPL-SN-680939	c 44	N78-10554 *	US-PATENT-APPL-SN-693420	c 31	N71-16080 *
US-PATENT-APPL-SN-667636	c 03	N71-20491 *	US-PATENT-APPL-SN-680957	c 35	N77-27366 *	US-PATENT-APPL-SN-694246	c 15	N71-26673 *
US-PATENT-APPL-SN-667637	c 28	N71-14044 *	US-PATENT-APPL-SN-680958	c 74	N78-18905 *	US-PATENT-APPL-SN-694247	c 09	N69-21927 #
US-PATENT-APPL-SN-667928	c 35	N77-30436 *	US-PATENT-APPL-SN-681000	c 34	N78-25350 *	US-PATENT-APPL-SN-694317	c 12	N71-20436 *
US-PATENT-APPL-SN-667929	c 35	N79-14346 *	US-PATENT-APPL-SN-681001	c 74	N76-22993 *	US-PATENT-APPL-SN-694340	c 11	N71-17600 *
US-PATENT-APPL-SN-667930	c 32	N78-23846 *	US-PATENT-APPL-SN-681017	c 44	N77-32583 *	US-PATENT-APPL-SN-694345	c 10	N71-23669 *
US-PATENT-APPL-SN-668116	c 35	N76-16391 *	US-PATENT-APPL-SN-681041	c 37	N86-27629 *	US-PATENT-APPL-SN-694406	c 35	N79-10389 *
US-PATENT-APPL-SN-668238	c 15	N71-15608 *	US-PATENT-APPL-SN-681096	c 44	N77-32582 *	US-PATENT-APPL-SN-694407	c 27	N80-23452 *
US-PATENT-APPL-SN-668241	c 15	N71-17685 *	US-PATENT-APPL-SN-681687	c 03	N71-20273 *	US-PATENT-APPL-SN-694855	c 33	N77-30365 *
US-PATENT-APPL-SN-668242	c 10	N71-27272 *	US-PATENT-APPL-SN-681692	c 08	N71-12506 *	US-PATENT-APPL-SN-694888	c 23	N75-14834 *
US-PATENT-APPL-SN-668247	c 09	N71-20445 *	US-PATENT-APPL-SN-681693	c 09	N71-18598 *	US-PATENT-APPL-SN-695513	c 07	N78-25089 *
US-PATENT-APPL-SN-668248	c 10	N71-26331 *	US-PATENT-APPL-SN-681942	c 18	N71-15688 *	US-PATENT-APPL-SN-695973	c 05	N71-12343 *

US-PATENT-APPL-SN-697075	c 15	N71-27184 *	US-PATENT-APPL-SN-711921	c 18	N71-16105 *	US-PATENT-APPL-SN-730703	c 10	N71-13537 *
US-PATENT-APPL-SN-697341	c 09	N71-23188 *	US-PATENT-APPL-SN-711970	c 09	N71-18830 *	US-PATENT-APPL-SN-730733	c 28	N71-16224 *
US-PATENT-APPL-SN-698239	c 33	N78-17294 *	US-PATENT-APPL-SN-711971	c 09	N71-23598 *	US-PATENT-APPL-SN-730734	c 15	N71-17654 *
US-PATENT-APPL-SN-698279	c 37	N87-22976 *	US-PATENT-APPL-SN-711972	c 06	N71-24607 *	US-PATENT-APPL-SN-730778	c 32	N79-10264 *
US-PATENT-APPL-SN-698592	c 15	N71-18580 *	US-PATENT-APPL-SN-712065	c 08	N71-12503 *	US-PATENT-APPL-SN-731388	c 15	N71-24835 *
US-PATENT-APPL-SN-698629	c 09	N71-12516 *	US-PATENT-APPL-SN-712099	c 23	N71-24868 *	US-PATENT-APPL-SN-732321	c 33	N87-28832 *
US-PATENT-APPL-SN-698630	c 09	N71-24841 *	US-PATENT-APPL-SN-712270	c 52	N79-27836 *	US-PATENT-APPL-SN-732455	c 22	N71-28759 *
US-PATENT-APPL-SN-698641	c 74	N86-28732 *	US-PATENT-APPL-SN-712419	c 35	N78-14364 *	US-PATENT-APPL-SN-732630	c 36	N78-14380 *
US-PATENT-APPL-SN-698646	c 24	N78-15180 *	US-PATENT-APPL-SN-712658	c 07	N71-19773 *	US-PATENT-APPL-SN-732833	c 15	N72-28495 *
US-PATENT-APPL-SN-699002	c 32	N78-15323 *	US-PATENT-APPL-SN-712981	c 31	N78-25256 *	US-PATENT-APPL-SN-732917	c 14	N71-17575 *
US-PATENT-APPL-SN-699012	c 33	N78-27326 *	US-PATENT-APPL-SN-713027	c 37	N79-10419 *	US-PATENT-APPL-SN-732921	c 10	N71-26544 *
US-PATENT-APPL-SN-700040	c 18	N72-23581 *	US-PATENT-APPL-SN-713162	c 06	N71-26754 *	US-PATENT-APPL-SN-732922	c 17	N71-28747 *
US-PATENT-APPL-SN-700120	c 15	N71-20440 *	US-PATENT-APPL-SN-713188	c 08	N71-33110 *	US-PATENT-APPL-SN-733039	c 07	N72-12081 *
US-PATENT-APPL-SN-700142	c 21	N71-14159 *	US-PATENT-APPL-SN-713449	c 74	N87-25843 *	US-PATENT-APPL-SN-733310	c 09	N72-25247 *
US-PATENT-APPL-SN-700174	c 02	N71-20570 *	US-PATENT-APPL-SN-713616	c 06	N71-27363 *	US-PATENT-APPL-SN-73367	c 14	N71-15969 *
US-PATENT-APPL-SN-700255	c 33	N87-21234 *	US-PATENT-APPL-SN-714051	c 33	N86-21742 *	US-PATENT-APPL-SN-733825	c 31	N79-11246 *
US-PATENT-APPL-SN-70032	c 11	N73-12264 *	US-PATENT-APPL-SN-714158	c 33	N78-13320 *	US-PATENT-APPL-SN-73422	c 15	N72-25454 *
US-PATENT-APPL-SN-700467	c 52	N79-14749 *	US-PATENT-APPL-SN-714296	c 14	N71-15604 *	US-PATENT-APPL-SN-734366	c 27	N87-22847 *
US-PATENT-APPL-SN-700541	c 10	N71-25139 *	US-PATENT-APPL-SN-714595	c 15	N71-17822 *	US-PATENT-APPL-SN-734805	c 14	N70-34816 *
US-PATENT-APPL-SN-700586	c 15	N71-19570 *	US-PATENT-APPL-SN-715485	c 74	N78-14889 *	US-PATENT-APPL-SN-734901	c 27	N78-17205 *
US-PATENT-APPL-SN-700673	c 39	N77-28511 *	US-PATENT-APPL-SN-715975	c 06	N71-11240 *	US-PATENT-APPL-SN-734902	c 24	N78-14096 *
US-PATENT-APPL-SN-700984	c 11	N71-19494 *	US-PATENT-APPL-SN-716183	c 15	N71-18132 *	US-PATENT-APPL-SN-735911	c 14	N70-41946 *
US-PATENT-APPL-SN-700985	c 15	N69-23190 *	US-PATENT-APPL-SN-716734	c 15	N71-17628 *	US-PATENT-APPL-SN-736286	c 32	N79-11265 *
US-PATENT-APPL-SN-700986	c 12	N71-26387 *	US-PATENT-APPL-SN-716795	c 14	N71-20435 *	US-PATENT-APPL-SN-736848	c 23	N71-16212 *
US-PATENT-APPL-SN-700987	c 09	N71-19610 *	US-PATENT-APPL-SN-716885	c 74	N78-33913 *	US-PATENT-APPL-SN-736909	c 37	N79-11404 *
US-PATENT-APPL-SN-701244	c 05	N72-20096 *	US-PATENT-APPL-SN-717052	c 14	N71-17626 *	US-PATENT-APPL-SN-736910	c 27	N78-32260 *
US-PATENT-APPL-SN-701448	c 52	N78-10686 *	US-PATENT-APPL-SN-717319	c 44	N77-31601 *	US-PATENT-APPL-SN-737018	c 37	N86-20801 *
US-PATENT-APPL-SN-701486	c 31	N87-21159 *	US-PATENT-APPL-SN-717320	c 44	N78-15560 *	US-PATENT-APPL-SN-737974	c 33	N78-18308 *
US-PATENT-APPL-SN-701635	c 12	N71-17578 *	US-PATENT-APPL-SN-717822	c 09	N71-25866 *	US-PATENT-APPL-SN-737975	c 32	N84-27952 *
US-PATENT-APPL-SN-701654	c 03	N71-11049 *	US-PATENT-APPL-SN-718095	c 28	N70-39899 *	US-PATENT-APPL-SN-738119	c 18	N71-15545 *
US-PATENT-APPL-SN-701679	c 02	N71-19287 *	US-PATENT-APPL-SN-718137	c 44	N78-31527 *	US-PATENT-APPL-SN-738218	c 37	N78-27425 *
US-PATENT-APPL-SN-701679	c 07	N73-20174 *	US-PATENT-APPL-SN-718244	c 05	N78-32086 *	US-PATENT-APPL-SN-738314	c 12	N71-17573 *
US-PATENT-APPL-SN-701732	c 24	N71-16095 *	US-PATENT-APPL-SN-718266	c 74	N78-17867 *	US-PATENT-APPL-SN-738315	c 14	N71-27334 *
US-PATENT-APPL-SN-701733	c 10	N71-24844 *	US-PATENT-APPL-SN-718267	c 26	N77-29260 *	US-PATENT-APPL-SN-738315	c 14	N72-31446 *
US-PATENT-APPL-SN-701744	c 21	N71-13958 *	US-PATENT-APPL-SN-718268	c 44	N78-33526 *	US-PATENT-APPL-SN-73834	c 15	N72-23497 *
US-PATENT-APPL-SN-701767	c 07	N71-26101 *	US-PATENT-APPL-SN-718279	c 15	N71-26312 *	US-PATENT-APPL-SN-738931	c 35	N86-20756 *
US-PATENT-APPL-SN-702115	c 71	N79-14871 *	US-PATENT-APPL-SN-718689	c 14	N71-17655 *	US-PATENT-APPL-SN-739072	c 33	N75-27251 *
US-PATENT-APPL-SN-702396	c 31	N71-16345 *	US-PATENT-APPL-SN-718752	c 03	N71-18698 *	US-PATENT-APPL-SN-73922	c 14	N73-25461 *
US-PATENT-APPL-SN-702911	c 15	N71-24875 *	US-PATENT-APPL-SN-718769	c 14	N71-17662 *	US-PATENT-APPL-SN-73932	c 15	N72-22485 *
US-PATENT-APPL-SN-702967	c 06	N71-24739 *	US-PATENT-APPL-SN-719029	c 14	N71-27186 *	US-PATENT-APPL-SN-739391	c 09	N72-17156 *
US-PATENT-APPL-SN-703107	c 37	N77-22479 *	US-PATENT-APPL-SN-719173	c 28	N70-33331 *	US-PATENT-APPL-SN-739760	c 27	N86-31726 *
US-PATENT-APPL-SN-703847	c 72	N86-33127 *	US-PATENT-APPL-SN-719794	c 35	N86-32695 *	US-PATENT-APPL-SN-739789	c 34	N85-29182 *
US-PATENT-APPL-SN-703905	c 32	N80-14281 *	US-PATENT-APPL-SN-719796	c 24	N86-21590 *	US-PATENT-APPL-SN-739792	c 33	N87-28833 *
US-PATENT-APPL-SN-704180	c 36	N78-27402 *	US-PATENT-APPL-SN-719798	c 76	N85-30934 *	US-PATENT-APPL-SN-739908	c 15	N78-25119 *
US-PATENT-APPL-SN-704224	c 18	N71-15469 *	US-PATENT-APPL-SN-719799	c 35	N86-25752 *	US-PATENT-APPL-SN-739909	c 37	N78-24545 *
US-PATENT-APPL-SN-704299	c 10	N71-26577 *	US-PATENT-APPL-SN-719869	c 31	N71-15676 *	US-PATENT-APPL-SN-739914	c 33	N78-10375 *
US-PATENT-APPL-SN-704420	c 05	N71-11202 *	US-PATENT-APPL-SN-719870	c 07	N71-26292 *	US-PATENT-APPL-SN-739915	c 37	N78-24544 *
US-PATENT-APPL-SN-704446	c 10	N71-33407 *	US-PATENT-APPL-SN-720041	c 05	N71-27234 *	US-PATENT-APPL-SN-739927	c 32	N71-16103 *
US-PATENT-APPL-SN-704465	c 07	N71-24741 *	US-PATENT-APPL-SN-720125	c 09	N71-12539 *	US-PATENT-APPL-SN-740153	c 28	N79-11231 *
US-PATENT-APPL-SN-704468	c 25	N79-28253 *	US-PATENT-APPL-SN-72024	c 09	N73-12211 *	US-PATENT-APPL-SN-740155	c 74	N78-27904 *
US-PATENT-APPL-SN-704513	c 33	N87-15414 *	US-PATENT-APPL-SN-720521	c 44	N78-25530 *	US-PATENT-APPL-SN-740156	c 71	N78-14867 *
US-PATENT-APPL-SN-704668	c 10	N71-12554 *	US-PATENT-APPL-SN-720546	c 18	N72-17532 *	US-PATENT-APPL-SN-740457	c 35	N78-32395 *
US-PATENT-APPL-SN-706013	c 33	N71-27862 *	US-PATENT-APPL-SN-721150	c 37	N78-17983 *	US-PATENT-APPL-SN-741056	c 07	N81-19116 *
US-PATENT-APPL-SN-706073	c 76	N79-11920 *	US-PATENT-APPL-SN-721607	c 18	N71-25881 *	US-PATENT-APPL-SN-741405	c 23	N86-21582 *
US-PATENT-APPL-SN-706424	c 27	N78-32256 *	US-PATENT-APPL-SN-723264	c 24	N78-10214 *	US-PATENT-APPL-SN-741461	c 12	N71-18603 *
US-PATENT-APPL-SN-706424	c 27	N80-10358 *	US-PATENT-APPL-SN-723264	c 24	N78-17149 *	US-PATENT-APPL-SN-741749	c 52	N79-14751 *
US-PATENT-APPL-SN-706424	c 27	N80-24438 *	US-PATENT-APPL-SN-723465	c 15	N72-29488 *	US-PATENT-APPL-SN-741824	c 07	N71-12389 *
US-PATENT-APPL-SN-706425	c 33	N78-10376 *	US-PATENT-APPL-SN-723465	c 37	N74-15125 *	US-PATENT-APPL-SN-742034	c 33	N78-10377 *
US-PATENT-APPL-SN-706564	c 14	N71-17587 *	US-PATENT-APPL-SN-723476	c 05	N71-12341 *	US-PATENT-APPL-SN-742816	c 14	N71-17656 *
US-PATENT-APPL-SN-706564	c 76	N87-15882 *	US-PATENT-APPL-SN-723488	c 09	N71-28691 *	US-PATENT-APPL-SN-743249	c 35	N77-32456 *
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US-PATENT-APPL-SN-706681	c 35	N86-32696 *	US-PATENT-APPL-SN-723805	c 10	N71-26339 *	US-PATENT-APPL-SN-743525	c 07	N71-28430 *
US-PATENT-APPL-SN-706682	c 24	N86-28131 *	US-PATENT-APPL-SN-723827	c 10	N71-27137 *	US-PATENT-APPL-SN-744477	c 33	N78-25319 *
US-PATENT-APPL-SN-707124	c 44	N77-22606 *	US-PATENT-APPL-SN-724551	c 15	N71-17696 *	US-PATENT-APPL-SN-744522	c 33	N77-21314 *
US-PATENT-APPL-SN-707125	c 39	N78-16387 *	US-PATENT-APPL-SN-724874	c 76	N78-24950 *	US-PATENT-APPL-SN-744573	c 44	N78-25531 *
US-PATENT-APPL-SN-707440	c 06	N73-30102 *	US-PATENT-APPL-SN-725405	c 15	N71-26134 *	US-PATENT-APPL-SN-744574	c 25	N78-14104 *
US-PATENT-APPL-SN-707495	c 11	N71-18773 *	US-PATENT-APPL-SN-725432	c 07	N71-24622 *	US-PATENT-APPL-SN-744577	c 35	N79-10391 *
US-PATENT-APPL-SN-708658	c 33	N77-26385 *	US-PATENT-APPL-SN-725475	c 31	N71-15643 *	US-PATENT-APPL-SN-744910	c 15	N71-17649 *
US-PATENT-APPL-SN-708660	c 34	N78-27357 *	US-PATENT-APPL-SN-725686	c 27	N87-15304 *	US-PATENT-APPL-SN-745337	c 28	N72-20758 *
US-PATENT-APPL-SN-708671	c 26	N78-24333 *	US-PATENT-APPL-SN-725689	c 37	N87-17037 *	US-PATENT-APPL-SN-745384	c 25	N79-11151 *
US-PATENT-APPL-SN-708795	c 37	N77-28487 *	US-PATENT-APPL-SN-725714	c 33	N85-30202 *	US-PATENT-APPL-SN-745766	c 37	N79-11403 *
US-PATENT-APPL-SN-708796	c 36	N78-18410 *	US-PATENT-APPL-SN-725719	c 15	N71-26243 *	US-PATENT-APPL-SN-745852	c 12	N71-17661 *
US-PATENT-APPL-SN-708800	c 54	N78-17676 *	US-PATENT-APPL-SN-725725	c 27	N87-16908 *	US-PATENT-APPL-SN-745973	c 36	N86-29204 *
US-PATENT-APPL-SN-708951	c 27	N78-31232 *	US-PATENT-APPL-SN-725727	c 27	N87-22845 *	US-PATENT-APPL-SN-745977	c 35	N87-14671 *
US-PATENT-APPL-SN-709255	c 37	N86-32738 *	US-PATENT-APPL-SN-726898	c 12	N71-17579 *	US-PATENT-APPL-SN-746160	c 37	N86-20797 *
US-PATENT-APPL-SN-709257	c 32	N87-14559 *	US-PATENT-APPL-SN-727034	c 35	N87-14669 *	US-PATENT-APPL-SN-746269	c 44	N78-25528 *
US-PATENT-APPL-SN-709398	c 06	N71-13461 *	US-PATENT-APPL-SN-727035	c 33	N86-32624 *	US-PATENT-APPL-SN-746578	c 12	N79-26075 *
US-PATENT-APPL-SN-709399	c 16	N71-26154 *	US-PATENT-APPL-SN-727444	c 31	N81-15154 *	US-PATENT-APPL-SN-746579	c 33	N81-27397 *
US-PATENT-APPL-SN-709415	c 44	N78-27515 *	US-PATENT-APPL-SN-727480	c 14	N71-17658 *	US-PATENT-APPL-SN-746580	c 34	N78-17335 *
US-PATENT-APPL-SN-709622	c 33	N71-24858 *	US-PATENT-APPL-SN-727503	c 08	N81-19130 *	US-PATENT-APPL-SN-746809	c 35	N87-22953 *
US-PATENT-APPL-SN-70967	c 07	N73-13149 *	US-PATENT-APPL-SN-727838	c 33	N86-20681 *	US-PATENT-APPL-SN-74759	c 14	N73-20478 *
US-PATENT-APPL-SN-70967	c 32	N74-10132 *	US-PATENT-APPL-SN-728234	c 03	N71-12255 *	US-PATENT-APPL-SN-747674	c 27	N80-26446 *
US-PATENT-APPL-SN-709849	c 52	N77-25772 *	US-PATENT-APPL-SN-728369	c 52	N76-33835 *	US-PATENT-APPL-SN-747675	c 37	N78-31426 *
US-PATENT-APPL-SN-710032	c 54	N77-30749 *	US-PATENT-APPL-SN-729299	c 03	N72-15986 *	US-PATENT-APPL-SN-748536	c 33	N86-20680 *
US-PATENT-APPL-SN-710035	c 44	N78-24608 *	US-PATENT-APPL-SN-729704	c 37	N87-23983 *	US-PATENT-APPL-SN-74861	c 27	N72-25699 *
US-PATENT-APPL-SN-710036	c 44	N78-32539 *	US-PATENT-APPL-SN-729719	c 32	N87-25511 *	US-PATENT-APPL-SN-74862	c 27	N73-16764 *
US-PATENT-APPL-SN-71047	c 09	N72-21247 *	US-PATENT-APPL-SN-729766	c 09	N87-14355 *	US-PATENT-APPL-SN-749121	c 07	N72-11149 *
US-PATENT-APPL-SN-71048	c 18	N73-12604 *	US-PATENT-APPL-SN-729767	c 24	N87-27742 *	US-PATENT-APPL-SN-749148	c 10	N71-19421 *
US-PATENT-APPL-SN-710533	c 02	N71-11043 *	US-PATENT-APPL-SN-729768	c 72	N87-21660 *	US-PATENT-APPL-SN-749149	c 15	N71-24897 *
US-PATENT-APPL-SN-710561	c 09	N71-12517 *	US-PATENT-APPL-SN-730045	c 32	N78-24391 *	US-PATENT-APPL-SN-749181	c 09	N71-24803 *
US-PATENT-APPL-SN-710562	c 31	N71-16085 *	US-PATENT-APPL-SN-730046	c 35	N78-32396 *	US-PATENT-APPL-SN-749320	c 14	N72-22443 *
US-PATENT-APPL-SN-710621	c 06	N73-27086 *	US-PATENT-APPL-SN-730162	c 09	N71-18599 *	US-PATENT-APPL-SN-749420	c 04	N82-16059 *
US-PATENT-APPL-SN-710945	c 33	N71-15568 *	US-PATENT-APPL-SN-730468	c 25	N79-11152 *	US-PATENT-APPL-SN-749548	c 10	N71-33129 *
US-PATENT-APPL-SN-7								

US-PATENT-APPL-SN-750786	c 07	N71-27341 *	US-PATENT-APPL-SN-764252	c 14	N71-25901 *	US-PATENT-APPL-SN-777766	c 31	N71-16221 *
US-PATENT-APPL-SN-750787	c 10	N71-27126 *	US-PATENT-APPL-SN-764470	c 16	N71-28554 *	US-PATENT-APPL-SN-777718	c 09	N71-27364 *
US-PATENT-APPL-SN-750792	c 37	N79-11402 *	US-PATENT-APPL-SN-764805	c 37	N87-17036 *	US-PATENT-APPL-SN-777786	c 14	N72-27412 *
US-PATENT-APPL-SN-750798	c 85	N79-11747 *	US-PATENT-APPL-SN-764812	c 10	N71-19468 *	US-PATENT-APPL-SN-777793	c 32	N79-24210 *
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US-PATENT-APPL-SN-751198	c 03	N71-24718 *	US-PATENT-APPL-SN-764823	c 33	N78-17296 *	US-PATENT-APPL-SN-778669	c 37	N79-21345 *
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US-PATENT-APPL-SN-751266	c 15	N71-33518 *	US-PATENT-APPL-SN-765139	c 44	N79-10513 *	US-PATENT-APPL-SN-779025	c 09	N72-23171 *
US-PATENT-APPL-SN-751644	c 85	N87-21755 *	US-PATENT-APPL-SN-765165	c 32	N79-11264 *	US-PATENT-APPL-SN-779160	c 14	N72-16282 *
US-PATENT-APPL-SN-751691	c 37	N87-21332 *	US-PATENT-APPL-SN-765167	c 32	N79-10263 *	US-PATENT-APPL-SN-779169	c 09	N71-28618 *
US-PATENT-APPL-SN-751955	c 71	N87-21652 *	US-PATENT-APPL-SN-765264	c 02	N71-29128 *	US-PATENT-APPL-SN-779415	c 60	N79-20751 *
US-PATENT-APPL-SN-752050	c 07	N81-19115 *	US-PATENT-APPL-SN-765738	c 03	N71-11057 *	US-PATENT-APPL-SN-779428	c 34	N78-25351 *
US-PATENT-APPL-SN-752729	c 09	N71-26787 *	US-PATENT-APPL-SN-765978	c 37	N87-21334 *	US-PATENT-APPL-SN-779429	c 08	N79-14108 *
US-PATENT-APPL-SN-752748	c 35	N78-25391 *	US-PATENT-APPL-SN-765979	c 89	N86-22459 *	US-PATENT-APPL-SN-779744	c 74	N87-23259 *
US-PATENT-APPL-SN-752946	c 15	N71-29032 *	US-PATENT-APPL-SN-765980	c 27	N86-27451 *	US-PATENT-APPL-SN-779847	c 15	N71-27091 *
US-PATENT-APPL-SN-752947	c 31	N71-15689 *	US-PATENT-APPL-SN-765981	c 74	N87-28416 *	US-PATENT-APPL-SN-779871	c 33	N79-20314 *
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US-PATENT-APPL-SN-753452	c 07	N79-14096 *	US-PATENT-APPL-SN-766170	c 07	N71-24625 *	US-PATENT-APPL-SN-780064	c 15	N71-27372 *
US-PATENT-APPL-SN-753964	c 24	N78-27180 *	US-PATENT-APPL-SN-766244	c 15	N71-26721 *	US-PATENT-APPL-SN-780065	c 12	N71-28741 *
US-PATENT-APPL-SN-753965	c 54	N78-31735 *	US-PATENT-APPL-SN-766245	c 14	N71-27215 *	US-PATENT-APPL-SN-780569	c 54	N78-31736 *
US-PATENT-APPL-SN-753965	c 54	N79-24651 *	US-PATENT-APPL-SN-766697	c 09	N71-33519 *	US-PATENT-APPL-SN-78065	c 08	N72-22162 *
US-PATENT-APPL-SN-753971	c 71	N84-14873 *	US-PATENT-APPL-SN-7668	c 15	N71-26611 *	US-PATENT-APPL-SN-780728	c 32	N78-31321 *
US-PATENT-APPL-SN-753974	c 16	N71-33410 *	US-PATENT-APPL-SN-766999	c 33	N80-23559 *	US-PATENT-APPL-SN-780729	c 33	N79-22373 *
US-PATENT-APPL-SN-753976	c 54	N78-17675 *	US-PATENT-APPL-SN-7669	c 31	N72-18859 *	US-PATENT-APPL-SN-780873	c 32	N81-27341 *
US-PATENT-APPL-SN-753977	c 74	N79-12890 *	US-PATENT-APPL-SN-767741	c 09	N72-27228 *	US-PATENT-APPL-SN-780874	c 35	N78-28411 *
US-PATENT-APPL-SN-753978	c 54	N78-32721 *	US-PATENT-APPL-SN-767911	c 09	N78-31129 *	US-PATENT-APPL-SN-780938	c 54	N80-10799 *
US-PATENT-APPL-SN-754019	c 09	N71-25999 *	US-PATENT-APPL-SN-767912	c 27	N79-14214 *	US-PATENT-APPL-SN-781812	c 36	N87-23960 *
US-PATENT-APPL-SN-754020	c 12	N71-27332 *	US-PATENT-APPL-SN-768336	c 15	N71-17648 *	US-PATENT-APPL-SN-781813	c 27	N87-14516 *
US-PATENT-APPL-SN-754055	c 07	N71-24624 *	US-PATENT-APPL-SN-768470	c 09	N71-28421 *	US-PATENT-APPL-SN-782462	c 33	N79-17133 *
US-PATENT-APPL-SN-754066	c 39	N78-15512 *	US-PATENT-APPL-SN-768473	c 14	N71-17657 *	US-PATENT-APPL-SN-782463	c 72	N79-13826 *
US-PATENT-APPL-SN-754331	c 21	N72-31637 *	US-PATENT-APPL-SN-768662	c 07	N73-25160 *	US-PATENT-APPL-SN-782464	c 32	N79-14267 *
US-PATENT-APPL-SN-754362	c 27	N87-21112 *	US-PATENT-APPL-SN-768795	c 33	N79-10339 *	US-PATENT-APPL-SN-782480	c 33	N78-32340 *
US-PATENT-APPL-SN-754707	c 33	N87-22895 *	US-PATENT-APPL-SN-768942	c 46	N74-23068 *	US-PATENT-APPL-SN-782481	c 44	N78-32542 *
US-PATENT-APPL-SN-755288	c 34	N87-22950 *	US-PATENT-APPL-SN-76899	c 09	N72-22201 *	US-PATENT-APPL-SN-782482	c 33	N79-11315 *
US-PATENT-APPL-SN-755310	c 25	N78-15210 *	US-PATENT-APPL-SN-769148	c 52	N79-10724 *	US-PATENT-APPL-SN-782544	c 14	N71-27325 *
US-PATENT-APPL-SN-755323	c 74	N79-11865 *	US-PATENT-APPL-SN-769149	c 33	N78-32339 *	US-PATENT-APPL-SN-782693	c 33	N79-10337 *
US-PATENT-APPL-SN-755620	c 23	N71-26722 *	US-PATENT-APPL-SN-769592	c 15	N72-16330 *	US-PATENT-APPL-SN-782955	c 07	N71-33108 *
US-PATENT-APPL-SN-755626	c 15	N71-26145 *	US-PATENT-APPL-SN-769665	c 15	N72-11387 *	US-PATENT-APPL-SN-782956	c 10	N71-27325 *
US-PATENT-APPL-SN-755631	c 06	N71-25929 *	US-PATENT-APPL-SN-769788	c 07	N71-11300 *	US-PATENT-APPL-SN-783374	c 15	N71-27147 *
US-PATENT-APPL-SN-755651	c 09	N71-27016 *	US-PATENT-APPL-SN-770203	c 05	N71-11195 *	US-PATENT-APPL-SN-783375	c 07	N71-24621 *
US-PATENT-APPL-SN-7556834	c 15	N72-21466 *	US-PATENT-APPL-SN-770209	c 08	N71-27057 *	US-PATENT-APPL-SN-783377	c 05	N71-28619 *
US-PATENT-APPL-SN-757017	c 35	N77-21393 *	US-PATENT-APPL-SN-770371	c 15	N71-24599 *	US-PATENT-APPL-SN-783378	c 07	N71-19436 *
US-PATENT-APPL-SN-757625	c 09	N71-26701 *	US-PATENT-APPL-SN-770398	c 06	N72-27144 *	US-PATENT-APPL-SN-783379	c 15	N71-17653 *
US-PATENT-APPL-SN-757857	c 10	N71-25900 *	US-PATENT-APPL-SN-770417	c 06	N73-33076 *	US-PATENT-APPL-SN-783886	c 37	N87-17035 *
US-PATENT-APPL-SN-757861	c 05	N71-11194 *	US-PATENT-APPL-SN-770425	c 06	N72-20121 *	US-PATENT-APPL-SN-783887	c 36	N87-25567 *
US-PATENT-APPL-SN-757875	c 09	N71-24805 *	US-PATENT-APPL-SN-770869	c 44	N78-25527 *	US-PATENT-APPL-SN-783888	c 37	N87-25582 *
US-PATENT-APPL-SN-758082	c 15	N71-17805 *	US-PATENT-APPL-SN-770920	c 37	N86-32736 *	US-PATENT-APPL-SN-783890	c 74	N87-17493 *
US-PATENT-APPL-SN-758390	c 28	N71-26642 *	US-PATENT-APPL-SN-771216	c 14	N72-17329 *	US-PATENT-APPL-SN-783890	c 74	N87-25843 *
US-PATENT-APPL-SN-758540	c 28	N72-27699 *	US-PATENT-APPL-SN-771245	c 27	N81-14076 *	US-PATENT-APPL-SN-784055	c 15	N72-11390 *
US-PATENT-APPL-SN-758721	c 52	N79-18580 *	US-PATENT-APPL-SN-771523	c 10	N71-18772 *	US-PATENT-APPL-SN-784521	c 14	N71-15620 *
US-PATENT-APPL-SN-758942	c 27	N71-14090 *	US-PATENT-APPL-SN-771530	c 09	N72-12136 *	US-PATENT-APPL-SN-784544	c 15	N72-12408 *
US-PATENT-APPL-SN-759220	c 27	N78-17214 *	US-PATENT-APPL-SN-771537	c 37	N87-23981 *	US-PATENT-APPL-SN-785078	c 03	N72-27053 *
US-PATENT-APPL-SN-759256	c 07	N71-27233 *	US-PATENT-APPL-SN-771538	c 24	N86-25416 *	US-PATENT-APPL-SN-785257	c 44	N79-14526 *
US-PATENT-APPL-SN-759457	c 33	N71-16357 *	US-PATENT-APPL-SN-77169	c 14	N72-21408 *	US-PATENT-APPL-SN-785279	c 27	N81-14077 *
US-PATENT-APPL-SN-759460	c 09	N71-24597 *	US-PATENT-APPL-SN-771759	c 09	N71-29008 *	US-PATENT-APPL-SN-785546	c 10	N71-25882 *
US-PATENT-APPL-SN-759665	c 14	N71-18481 *	US-PATENT-APPL-SN-771760	c 10	N71-25917 *	US-PATENT-APPL-SN-785595	c 10	N71-24861 *
US-PATENT-APPL-SN-759665	c 52	N79-26771 *	US-PATENT-APPL-SN-771803	c 07	N71-12391 *	US-PATENT-APPL-SN-785611	c 15	N71-24600 *
US-PATENT-APPL-SN-760057	c 44	N79-14527 *	US-PATENT-APPL-SN-771937	c 10	N71-24862 *	US-PATENT-APPL-SN-785615	c 05	N72-25119 *
US-PATENT-APPL-SN-760114	c 28	N72-11709 *	US-PATENT-APPL-SN-772006	c 17	N71-33408 *	US-PATENT-APPL-SN-785620	c 21	N71-27324 *
US-PATENT-APPL-SN-760374	c 27	N87-16909 *	US-PATENT-APPL-SN-772165	c 74	N79-13855 *	US-PATENT-APPL-SN-785710	c 05	N71-24730 *
US-PATENT-APPL-SN-760378	c 37	N86-32737 *	US-PATENT-APPL-SN-772167	c 25	N79-22375 *	US-PATENT-APPL-SN-785780	c 18	N71-28729 *
US-PATENT-APPL-SN-760389	c 09	N71-24618 *	US-PATENT-APPL-SN-77220	c 14	N72-27409 *	US-PATENT-APPL-SN-786322	c 32	N79-20296 *
US-PATENT-APPL-SN-760771	c 44	N79-14528 *	US-PATENT-APPL-SN-77221	c 08	N72-25210 *	US-PATENT-APPL-SN-7867	c 14	N72-17324 *
US-PATENT-APPL-SN-760790	c 36	N87-28006 *	US-PATENT-APPL-SN-772434	c 52	N80-14687 *	US-PATENT-APPL-SN-7868	c 10	N72-17173 *
US-PATENT-APPL-SN-760791	c 27	N87-14515 *	US-PATENT-APPL-SN-77251	c 25	N70-41628 *	US-PATENT-APPL-SN-78703	c 15	N73-12221 *
US-PATENT-APPL-SN-760797	c 27	N87-16907 *	US-PATENT-APPL-SN-77252	c 02	N70-37939 *	US-PATENT-APPL-SN-78704	c 05	N72-25121 *
US-PATENT-APPL-SN-760799	c 54	N87-29118 *	US-PATENT-APPL-SN-77256	c 15	N70-33323 *	US-PATENT-APPL-SN-78717	c 05	N73-13114 *
US-PATENT-APPL-SN-760809	c 24	N78-24290 *	US-PATENT-APPL-SN-773029	c 09	N71-24893 *	US-PATENT-APPL-SN-787393	c 23	N71-26206 *
US-PATENT-APPL-SN-760810	c 26	N78-32229 *	US-PATENT-APPL-SN-773072	c 10	N72-28241 *	US-PATENT-APPL-SN-787410	c 15	N71-19213 *
US-PATENT-APPL-SN-760819	c 14	N70-34820 *	US-PATENT-APPL-SN-773530	c 25	N75-29192 *	US-PATENT-APPL-SN-78746	c 05	N74-10907 *
US-PATENT-APPL-SN-760927	c 26	N71-25490 *	US-PATENT-APPL-SN-774151	c 15	N71-17692 *	US-PATENT-APPL-SN-787466	c 23	N71-33229 *
US-PATENT-APPL-SN-760928	c 15	N71-28582 *	US-PATENT-APPL-SN-774266	c 15	N71-27365 *	US-PATENT-APPL-SN-787906	c 03	N71-26084 *
US-PATENT-APPL-SN-761007	c 18	N71-26155 *	US-PATENT-APPL-SN-774384	c 32	N79-10262 *	US-PATENT-APPL-SN-787911	c 03	N71-28579 *
US-PATENT-APPL-SN-761235	c 27	N86-32569 *	US-PATENT-APPL-SN-774691	c 10	N72-31273 *	US-PATENT-APPL-SN-788045	c 24	N79-25142 *
US-PATENT-APPL-SN-761252	c 27	N80-32515 *	US-PATENT-APPL-SN-774733	c 14	N72-24477 *	US-PATENT-APPL-SN-788705	c 35	N78-24515 *
US-PATENT-APPL-SN-761404	c 09	N71-12526 *	US-PATENT-APPL-SN-775072	c 16	N71-24831 *	US-PATENT-APPL-SN-789043	c 10	N71-26531 *
US-PATENT-APPL-SN-762362	c 44	N79-24433 *	US-PATENT-APPL-SN-775239	c 37	N79-14382 *	US-PATENT-APPL-SN-789044	c 14	N72-20381 *
US-PATENT-APPL-SN-762363	c 44	N79-24432 *	US-PATENT-APPL-SN-775548	c 33	N87-21233 *	US-PATENT-APPL-SN-789045	c 15	N72-22489 *
US-PATENT-APPL-SN-762438	c 12	N71-17569 *	US-PATENT-APPL-SN-775870	c 09	N71-24800 *	US-PATENT-APPL-SN-789266	c 71	N86-20087 *
US-PATENT-APPL-SN-762935	c 14	N71-29041 *	US-PATENT-APPL-SN-775877	c 09	N72-22196 *	US-PATENT-APPL-SN-789278	c 15	N71-24694 *
US-PATENT-APPL-SN-762936	c 31	N69-27499 *	US-PATENT-APPL-SN-775966	c 02	N71-11039 *	US-PATENT-APPL-SN-789713	c 28	N86-23744 *
US-PATENT-APPL-SN-762956	c 14	N71-26627 *	US-PATENT-APPL-SN-775966	c 02	N71-11037 *	US-PATENT-APPL-SN-789903	c 07	N71-28429 *
US-PATENT-APPL-SN-762957	c 08	N71-27210 *	US-PATENT-APPL-SN-775989	c 71	N87-21160 *	US-PATENT-APPL-SN-790420	c 09	N71-24595 *
US-PATENT-APPL-SN-763040	c 14	N72-28438 *	US-PATENT-APPL-SN-775990	c 17	N87-21653 *	US-PATENT-APPL-SN-790556	c 08	N87-20999 *
US-PATENT-APPL-SN-763355	c 06	N71-28620 *	US-PATENT-APPL-SN-776029	c 07	N87-25348 *	US-PATENT-APPL-SN-790637	c 44	N78-25529 *
US-PATENT-APPL-SN-763684	c 15	N72-16329 *	US-PATENT-APPL-SN-776146	c 44	N79-10057 *	US-PATENT-APPL-SN-791267	c 23	N72-17747 *
US-PATENT-APPL-SN-763685	c 15	N71-24910 *	US-PATENT-APPL-SN-776185	c 25	N82-21268 *	US-PATENT-APPL-SN-791268	c 33	N72-17947 *
US-PATENT-APPL-SN-763705	c 09	N71-18720 *	US-PATENT-APPL-SN-777664	c 15	N71-27214 *	US-PATENT-APPL-SN-791288	c 28	N71-25213 *
US-PATENT-APPL-SN-763706	c 15	N71-24896 *	US-PATENT-APPL-SN-777765	c 15	N71-29018 *	US-PATENT-APPL-SN-791364	c 14	N72-17328 *
US-PATENT-APPL-SN-763729	c 12	N71-26546 *	US-PATENT-APPL-SN-777765	c 14	N73-28487 *	US-PATENT-APPL-SN-791693	c 05	N71-11203 *
US-PATENT-APPL-SN-763743	c 14	N72-21409 *				US-PATENT-APPL-SN-791888	c 23	N71-24725 *
US-PATENT-APPL-SN-763744	c 10	N72-27246 *				US-PATENT-APPL-SN-792067	c 24	N78-17150 *
US-PATENT-APPL-SN-763753	c 43	N78-14452 *				US-PATENT-APPL-SN-792068	c 51	N79-10693 *
US-PATENT-APPL-SN-763868	c 15	N71-24679 *						
US-PATENT-APPL-SN-763869	c 17	N71-16						

US-PATENT-APPL-SN-792069	c 37	N79-10418 *	US-PATENT-APPL-SN-809851	c 33	N87-23904 *	US-PATENT-APPL-SN-829042	c 35	N86-32700 *
US-PATENT-APPL-SN-792623	c 14	N72-23457 *	US-PATENT-APPL-SN-809890	c 44	N79-17314 *	US-PATENT-APPL-SN-829314	c 39	N79-31228 *
US-PATENT-APPL-SN-793006	c 52	N86-19885 *	US-PATENT-APPL-SN-809890	c 44	N80-14474 *	US-PATENT-APPL-SN-829315	c 34	N79-20326 *
US-PATENT-APPL-SN-793657	c 17	N72-28536 *	US-PATENT-APPL-SN-809975	c 44	N87-17399 *	US-PATENT-APPL-SN-829316	c 18	N79-11108 *
US-PATENT-APPL-SN-793770	c 25	N71-15562 *	US-PATENT-APPL-SN-810575	c 15	N71-27169 *	US-PATENT-APPL-SN-829317	c 52	N80-18690 *
US-PATENT-APPL-SN-793771	c 14	N72-22440 *	US-PATENT-APPL-SN-810576	c 15	N73-12492 *	US-PATENT-APPL-SN-829318	c 52	N80-14684 *
US-PATENT-APPL-SN-793772	c 10	N71-18722 *	US-PATENT-APPL-SN-810576	c 25	N82-21269 *	US-PATENT-APPL-SN-829390	c 44	N79-11469 *
US-PATENT-APPL-SN-793823	c 09	N71-33109 *	US-PATENT-APPL-SN-810579	c 09	N72-22203 *	US-PATENT-APPL-SN-829390	c 44	N80-16452 *
US-PATENT-APPL-SN-794530	c 15	N72-11386 *	US-PATENT-APPL-SN-810579	c 33	N74-22864 *	US-PATENT-APPL-SN-829825	c 03	N71-24681 *
US-PATENT-APPL-SN-794968	c 15	N71-27146 *	US-PATENT-APPL-SN-810815	c 06	N72-22107 *	US-PATENT-APPL-SN-830272	c 33	N81-29342 *
US-PATENT-APPL-SN-795182	c 07	N71-24840 *	US-PATENT-APPL-SN-81095	c 13	N72-25323 *	US-PATENT-APPL-SN-830366	c 16	N72-13437 *
US-PATENT-APPL-SN-795217	c 33	N71-25351 *	US-PATENT-APPL-SN-81096	c 14	N73-14427 *	US-PATENT-APPL-SN-830458	c 46	N79-23555 *
US-PATENT-APPL-SN-795805	c 08	N86-20396 *	US-PATENT-APPL-SN-811037	c 14	N71-26137 *	US-PATENT-APPL-SN-830562	c 39	N80-10507 *
US-PATENT-APPL-SN-795845	c 37	N87-25573 *	US-PATENT-APPL-SN-811038	c 14	N72-20380 *	US-PATENT-APPL-SN-830715	c 15	N71-24903 *
US-PATENT-APPL-SN-796053	c 37	N87-22985 *	US-PATENT-APPL-SN-811401	c 31	N81-25258 *	US-PATENT-APPL-SN-830846	c 31	N80-32584 *
US-PATENT-APPL-SN-796256	c 52	N80-18691 *	US-PATENT-APPL-SN-811509	c 02	N70-33332 *	US-PATENT-APPL-SN-830978	c 28	N71-26173 *
US-PATENT-APPL-SN-796258	c 52	N82-22875 *	US-PATENT-APPL-SN-811542	c 21	N71-24948 *	US-PATENT-APPL-SN-831118	c 08	N72-11172 *
US-PATENT-APPL-SN-796263	c 27	N79-28307 *	US-PATENT-APPL-SN-811815	c 44	N78-31525 *	US-PATENT-APPL-SN-831183	c 32	N86-24879 *
US-PATENT-APPL-SN-796358	c 05	N72-11085 *	US-PATENT-APPL-SN-811892	c 14	N71-27090 *	US-PATENT-APPL-SN-831371	c 31	N87-25492 *
US-PATENT-APPL-SN-796360	c 15	N71-24696 *	US-PATENT-APPL-SN-812447	c 71	N79-20827 *	US-PATENT-APPL-SN-831377	c 37	N87-23982 *
US-PATENT-APPL-SN-796370	c 10	N71-27366 *	US-PATENT-APPL-SN-812998	c 28	N72-22769 *	US-PATENT-APPL-SN-831631	c 32	N79-20297 *
US-PATENT-APPL-SN-796405	c 14	N71-27185 *	US-PATENT-APPL-SN-812999	c 05	N71-12345 *	US-PATENT-APPL-SN-831632	c 07	N80-26298 *
US-PATENT-APPL-SN-796685	c 26	N72-28762 *	US-PATENT-APPL-SN-813338	c 18	N72-22566 *	US-PATENT-APPL-SN-831633	c 05	N80-14107 *
US-PATENT-APPL-SN-796690	c 07	N72-21119 *	US-PATENT-APPL-SN-813488	c 15	N71-28467 *	US-PATENT-APPL-SN-831634	c 05	N79-12061 *
US-PATENT-APPL-SN-796691	c 10	N71-26334 *	US-PATENT-APPL-SN-813494	c 08	N72-11171 *	US-PATENT-APPL-SN-832296	c 26	N87-28647 *
US-PATENT-APPL-SN-797056	c 15	N71-25975 *	US-PATENT-APPL-SN-814004	c 33	N79-18193 *	US-PATENT-APPL-SN-832603	c 09	N72-22199 *
US-PATENT-APPL-SN-797057	c 15	N70-22192 *	US-PATENT-APPL-SN-814005	c 76	N79-14906 *	US-PATENT-APPL-SN-833049	c 06	N72-21094 *
US-PATENT-APPL-SN-797058	c 05	N71-24738 *	US-PATENT-APPL-SN-814006	c 37	N79-22475 *	US-PATENT-APPL-SN-833637	c 33	N79-24257 *
US-PATENT-APPL-SN-797059	c 15	N71-28465 *	US-PATENT-APPL-SN-814212	c 14	N72-17326 *	US-PATENT-APPL-SN-834257	c 32	N80-14281 *
US-PATENT-APPL-SN-797210	c 28	N78-31255 *	US-PATENT-APPL-SN-814378	c 25	N79-10162 *	US-PATENT-APPL-SN-834977	c 27	N87-23736 *
US-PATENT-APPL-SN-797219	c 03	N71-33409 *	US-PATENT-APPL-SN-815099	c 60	N86-24224 *	US-PATENT-APPL-SN-834978	c 27	N86-24841 *
US-PATENT-APPL-SN-797794	c 07	N71-12396 *	US-PATENT-APPL-SN-815103	c 60	N86-23283 *	US-PATENT-APPL-SN-835058	c 21	N72-22619 *
US-PATENT-APPL-SN-797795	c 07	N71-27191 *	US-PATENT-APPL-SN-815106	c 60	N86-24225 *	US-PATENT-APPL-SN-835059	c 09	N71-26133 *
US-PATENT-APPL-SN-797796	c 28	N71-14058 *	US-PATENT-APPL-SN-815366	c 14	N71-28994 *	US-PATENT-APPL-SN-835060	c 02	N71-26110 *
US-PATENT-APPL-SN-798277	c 23	N71-26654 *	US-PATENT-APPL-SN-815367	c 14	N71-28863 *	US-PATENT-APPL-SN-835146	c 15	N70-33264 *
US-PATENT-APPL-SN-798976	c 52	N81-25661 *	US-PATENT-APPL-SN-815760	c 15	N71-27068 *	US-PATENT-APPL-SN-835152	c 28	N70-38199 *
US-PATENT-APPL-SN-799013	c 09	N71-28468 *	US-PATENT-APPL-SN-816733	c 15	N71-27084 *	US-PATENT-APPL-SN-835153	c 31	N71-17680 *
US-PATENT-APPL-SN-799023	c 37	N79-10421 *	US-PATENT-APPL-SN-816988	c 14	N71-26199 *	US-PATENT-APPL-SN-835419	c 33	N80-18285 *
US-PATENT-APPL-SN-799024	c 24	N78-17149 *	US-PATENT-APPL-SN-817413	c 33	N79-12321 *	US-PATENT-APPL-SN-835544	c 33	N79-14305 *
US-PATENT-APPL-SN-799025	c 32	N80-29539 *	US-PATENT-APPL-SN-817415	c 74	N79-20857 *	US-PATENT-APPL-SN-835628	c 35	N79-14347 *
US-PATENT-APPL-SN-799026	c 44	N79-11468 *	US-PATENT-APPL-SN-817481	c 09	N72-11225 *	US-PATENT-APPL-SN-836280	c 14	N73-14428 *
US-PATENT-APPL-SN-799353	c 09	N71-27232 *	US-PATENT-APPL-SN-817482	c 10	N71-27338 *	US-PATENT-APPL-SN-836280	c 35	N75-25122 *
US-PATENT-APPL-SN-799832	c 33	N79-15245 *	US-PATENT-APPL-SN-817569	c 06	N69-31244 *	US-PATENT-APPL-SN-836367	c 09	N71-24804 *
US-PATENT-APPL-SN-800193	c 37	N87-17038 *	US-PATENT-APPL-SN-818349	c 21	N71-19212 *	US-PATENT-APPL-SN-837259	c 54	N79-24652 *
US-PATENT-APPL-SN-800204	c 06	N72-17094 *	US-PATENT-APPL-SN-818916	c 05	N79-17847 *	US-PATENT-APPL-SN-837260	c 37	N78-27423 *
US-PATENT-APPL-SN-800229	c 14	N73-32320 *	US-PATENT-APPL-SN-818917	c 32	N79-13214 *	US-PATENT-APPL-SN-837377	c 15	N71-26148 *
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US-PATENT-APPL-SN-853705	c 45	N79-12584 *	US-PATENT-APPL-SN-868445	c 14	N72-17323 *	US-PATENT-APPL-SN-888432	c 74	N81-17886 *
US-PATENT-APPL-SN-853716	c 09	N71-24904 *	US-PATENT-APPL-SN-868529	c 08	N72-22167 *	US-PATENT-APPL-SN-888434	c 51	N83-27569 *
US-PATENT-APPL-SN-853746	c 02	N72-11018 *	US-PATENT-APPL-SN-868530	c 05	N72-11084 *	US-PATENT-APPL-SN-889374	c 08	N72-25207 *
US-PATENT-APPL-SN-853763	c 07	N70-12616 *	US-PATENT-APPL-SN-868775	c 09	N72-25261 *	US-PATENT-APPL-SN-889375	c 10	N72-20222 *
US-PATENT-APPL-SN-853763	c 07	N72-33146 *	US-PATENT-APPL-SN-868775	c 09	N73-27150 *	US-PATENT-APPL-SN-889376	c 18	N71-26285 *
US-PATENT-APPL-SN-853855	c 17	N72-22530 *	US-PATENT-APPL-SN-869260	c 05	N72-20097 *	US-PATENT-APPL-SN-889387	c 09	N71-29035 *
US-PATENT-APPL-SN-853855	c 17	N72-28535 *	US-PATENT-APPL-SN-869260	c 05	N73-25125 *	US-PATENT-APPL-SN-889420	c 14	N72-25413 *
US-PATENT-APPL-SN-853856	c 16	N71-29131 *	US-PATENT-APPL-SN-870689	c 06	N72-25148 *	US-PATENT-APPL-SN-889422	c 09	N72-25259 *
US-PATENT-APPL-SN-853983	c 14	N70-33254 *	US-PATENT-APPL-SN-871207	c 23	N86-32526 *	US-PATENT-APPL-SN-889423	c 10	N72-22236 *
US-PATENT-APPL-SN-853984	c 21	N70-33181 *	US-PATENT-APPL-SN-87222	c 05	N72-27103 *	US-PATENT-APPL-SN-889437	c 15	N72-11392 *
US-PATENT-APPL-SN-854815	c 09	N71-24807 *	US-PATENT-APPL-SN-872602	c 09	N72-22200 *	US-PATENT-APPL-SN-889438	c 15	N72-18477 *
US-PATENT-APPL-SN-854920	c 15	N79-26100 *	US-PATENT-APPL-SN-872664	c 08	N70-34675 *	US-PATENT-APPL-SN-889478	c 08	N71-29138 *
US-PATENT-APPL-SN-855004	c 24	N72-11595 *	US-PATENT-APPL-SN-873045	c 14	N72-20379 *	US-PATENT-APPL-SN-889479	c 14	N72-17325 *
US-PATENT-APPL-SN-855364	c 52	N81-27783 *	US-PATENT-APPL-SN-873259	c 08	N72-21200 *	US-PATENT-APPL-SN-889551	c 21	N72-21624 *
US-PATENT-APPL-SN-85585	c 21	N70-35427 *	US-PATENT-APPL-SN-873260	c 33	N72-17948 *	US-PATENT-APPL-SN-889554	c 15	N72-20444 *
US-PATENT-APPL-SN-855879	c 27	N86-26435 *	US-PATENT-APPL-SN-873793	c 14	N72-21407 *	US-PATENT-APPL-SN-889555	c 09	N72-17154 *
US-PATENT-APPL-SN-855982	c 31	N86-27467 *	US-PATENT-APPL-SN-874177	c 11	N72-25284 *	US-PATENT-APPL-SN-889556	c 14	N72-18411 *
US-PATENT-APPL-SN-855983	c 03	N86-26296 *	US-PATENT-APPL-SN-874304	c 25	N86-32540 *	US-PATENT-APPL-SN-889557	c 11	N72-17183 *
US-PATENT-APPL-SN-856253	c 24	N74-19769 *	US-PATENT-APPL-SN-874319	c 35	N87-14676 *	US-PATENT-APPL-SN-889558	c 15	N72-22491 *
US-PATENT-APPL-SN-856258	c 05	N71-17599 *	US-PATENT-APPL-SN-874435	c 11	N71-33612 *	US-PATENT-APPL-SN-889583	c 15	N72-21464 *
US-PATENT-APPL-SN-856279	c 07	N72-21118 *	US-PATENT-APPL-SN-874673	c 27	N82-29454 *	US-PATENT-APPL-SN-889584	c 08	N72-31226 *
US-PATENT-APPL-SN-856282	c 08	N72-22166 *	US-PATENT-APPL-SN-874674	c 27	N82-29452 *	US-PATENT-APPL-SN-889670	c 39	N79-22537 *
US-PATENT-APPL-SN-856327	c 05	N72-16015 *	US-PATENT-APPL-SN-874675	c 27	N82-29455 *	US-PATENT-APPL-SN-889671	c 24	N81-14000 *
US-PATENT-APPL-SN-856328	c 14	N72-22441 *	US-PATENT-APPL-SN-874732	c 09	N71-29139 *	US-PATENT-APPL-SN-889671	c 24	N81-33235 *
US-PATENT-APPL-SN-856415	c 09	N71-26182 *	US-PATENT-APPL-SN-874733	c 15	N71-26635 *	US-PATENT-APPL-SN-889682	c 15	N72-25447 *
US-PATENT-APPL-SN-856460	c 25	N79-24073 *	US-PATENT-APPL-SN-874958	c 31	N71-15566 *	US-PATENT-APPL-SN-890445	c 18	N87-27713 *
US-PATENT-APPL-SN-856461	c 34	N79-12359 *	US-PATENT-APPL-SN-87550	c 06	N72-25146 *	US-PATENT-APPL-SN-890575	c 09	N87-25334 *
US-PATENT-APPL-SN-856462	c 34	N80-24573 *	US-PATENT-APPL-SN-87551	c 33	N73-16918 *	US-PATENT-APPL-SN-890577	c 27	N87-10205 *
US-PATENT-APPL-SN-856462	c 48	N81-24519 *	US-PATENT-APPL-SN-875798	c 37	N86-32740 *	US-PATENT-APPL-SN-890586	c 32	N87-15390 *
US-PATENT-APPL-SN-856464	c 36	N79-14362 *	US-PATENT-APPL-SN-875799	c 34	N87-28867 *	US-PATENT-APPL-SN-890683	c 37	N87-15464 *
US-PATENT-APPL-SN-856465	c 44	N80-14473 *	US-PATENT-APPL-SN-875849	c 07	N71-33696 *	US-PATENT-APPL-SN-891243	c 44	N79-25482 *
US-PATENT-APPL-SN-85								

US-PATENT-APPL-SN-891370	c 20	N79-20179 *	US-PATENT-APPL-SN-928131	c 09	N79-31228 *	US-PATENT-APPL-SN-969759	c 25	N82-11144 *
US-PATENT-APPL-SN-891372	c 37	N79-22474 *	US-PATENT-APPL-SN-928133	c 44	N80-18550 *	US-PATENT-APPL-SN-969760	c 39	N81-25400 *
US-PATENT-APPL-SN-891373	c 31	N80-18231 *	US-PATENT-APPL-SN-928137	c 52	N80-23969 *	US-PATENT-APPL-SN-969761	c 32	N82-12297 *
US-PATENT-APPL-SN-891872	c 25	N82-24312 *	US-PATENT-APPL-SN-929083	c 36	N80-16321 *	US-PATENT-APPL-SN-969762	c 33	N82-29539 *
US-PATENT-APPL-SN-89209	c 09	N72-25248 *	US-PATENT-APPL-SN-929084	c 37	N81-19455 *	US-PATENT-APPL-SN-971112	c 21	N70-34539 *
US-PATENT-APPL-SN-89210	c 07	N73-26119 *	US-PATENT-APPL-SN-929086	c 24	N81-13999 *	US-PATENT-APPL-SN-971473	c 23	N81-29160 *
US-PATENT-APPL-SN-89211	c 14	N73-12446 *	US-PATENT-APPL-SN-929087	c 35	N80-28687 *	US-PATENT-APPL-SN-971474	c 20	N82-18314 *
US-PATENT-APPL-SN-89212	c 08	N72-25208 *	US-PATENT-APPL-SN-929088	c 74	N80-24149 *	US-PATENT-APPL-SN-971475	c 27	N81-24257 *
US-PATENT-APPL-SN-893382	c 34	N79-24285 *	US-PATENT-APPL-SN-929862	c 02	N87-18535 *	US-PATENT-APPL-SN-971596	c 27	N80-32516 *
US-PATENT-APPL-SN-893383	c 31	N81-27323 *	US-PATENT-APPL-SN-929865	c 18	N87-18596 *	US-PATENT-APPL-SN-972252	c 35	N81-33448 *
US-PATENT-APPL-SN-893657	c 51	N80-27067 *	US-PATENT-APPL-SN-929869	c 35	N87-23941 *	US-PATENT-APPL-SN-97343	c 10	N72-27246 *
US-PATENT-APPL-SN-893857	c 24	N81-17170 *	US-PATENT-APPL-SN-929875	c 18	N87-18597 *	US-PATENT-APPL-SN-974292	c 26	N80-23419 *
US-PATENT-APPL-SN-893857	c 24	N81-26179 *	US-PATENT-APPL-SN-929876	c 32	N87-18691 *	US-PATENT-APPL-SN-974471	c 32	N81-14185 *
US-PATENT-APPL-SN-893865	c 37	N81-24443 *	US-PATENT-APPL-SN-930217	c 25	N87-18625 *	US-PATENT-APPL-SN-974472	c 37	N81-15363 *
US-PATENT-APPL-SN-893903	c 60	N81-15706 *	US-PATENT-APPL-SN-931090	c 37	N80-26658 *	US-PATENT-APPL-SN-974473	c 60	N81-27814 *
US-PATENT-APPL-SN-894213	c 37	N80-23655 *	US-PATENT-APPL-SN-931090	c 37	N82-19540 *	US-PATENT-APPL-SN-974474	c 25	N81-19242 *
US-PATENT-APPL-SN-894541	c 54	N87-25765 *	US-PATENT-APPL-SN-931217	c 37	N80-32716 *	US-PATENT-APPL-SN-974475	c 33	N81-17349 *
US-PATENT-APPL-SN-897239	c 20	N87-10174 *	US-PATENT-APPL-SN-931218	c 20	N80-18097 *	US-PATENT-APPL-SN-974476	c 52	N81-14613 *
US-PATENT-APPL-SN-897828	c 52	N81-29763 *	US-PATENT-APPL-SN-933186	c 27	N80-32515 *	US-PATENT-APPL-SN-974772	c 14	N73-28487 *
US-PATENT-APPL-SN-897829	c 44	N79-25481 *	US-PATENT-APPL-SN-933229	c 09	N73-26195 *	US-PATENT-APPL-SN-97829	c 06	N73-13129 *
US-PATENT-APPL-SN-897830	c 35	N80-21719 *	US-PATENT-APPL-SN-933941	c 33	N87-18761 *	US-PATENT-APPL-SN-98517	c 09	N72-25250 *
US-PATENT-APPL-SN-897831	c 44	N80-20808 *	US-PATENT-APPL-SN-933961	c 76	N87-29360 *	US-PATENT-APPL-SN-98640	c 09	N72-25253 *
US-PATENT-APPL-SN-897832	c 43	N81-26509 *	US-PATENT-APPL-SN-933962	c 25	N87-18626 *	US-PATENT-APPL-SN-98772	c 08	N73-12176 *
US-PATENT-APPL-SN-897840	c 31	N81-14137 *	US-PATENT-APPL-SN-933963	c 05	N87-18561 *	US-PATENT-APPL-SN-98773	c 15	N72-22486 *
US-PATENT-APPL-SN-899123	c 44	N79-14528 *	US-PATENT-APPL-SN-934470	c 23	N87-14433 *	US-PATENT-APPL-SN-98774	c 14	N73-19419 *
US-PATENT-APPL-SN-899683	c 18	N87-14413 *	US-PATENT-APPL-SN-934576	c 35	N80-18358 *	US-PATENT-APPL-SN-98798	c 09	N73-13209 *
US-PATENT-APPL-SN-899828	c 32	N80-18252 *	US-PATENT-APPL-SN-935827	c 37	N80-18393 *	US-PATENT-APPL-SN-99174	c 14	N72-33377 *
US-PATENT-APPL-SN-900659	c 27	N81-17261 *	US-PATENT-APPL-SN-937114	c 44	N82-28780 *	US-PATENT-APPL-SN-99175	c 09	N72-25258 *
US-PATENT-APPL-SN-900841	c 32	N82-31583 *	US-PATENT-APPL-SN-938293	c 32	N80-32605 *	US-PATENT-APPL-SN-99198	c 31	N73-32749 *
US-PATENT-APPL-SN-900842	c 32	N79-24203 *	US-PATENT-APPL-SN-938297	c 25	N81-14015 *	US-PATENT-APPL-SN-99201	c 15	N73-25512 *
US-PATENT-APPL-SN-900843	c 44	N80-20810 *	US-PATENT-APPL-SN-938298	c 33	N81-17348 *	US-PATENT-APPL-SN-99201	c 37	N74-20063 *
US-PATENT-APPL-SN-901055	c 76	N80-32245 *	US-PATENT-APPL-SN-938299	c 33	N81-19389 *	US-PATENT-APPL-SN-99524	c 06	N72-27144 *
US-PATENT-APPL-SN-901113	c 35	N87-28884 *	US-PATENT-APPL-SN-938300	c 37	N80-23654 *	US-PATENT-APPL-SN-99901	c 37	N74-10474 *
US-PATENT-APPL-SN-901114	c 76	N87-15883 *	US-PATENT-APPL-SN-938579	c 76	N80-32244 *	US-PATENT-APPL-SN-99903	c 11	N73-12265 *
US-PATENT-APPL-SN-901496	c 23	N87-23698 *	US-PATENT-APPL-SN-938581	c 04	N80-32359 *			
US-PATENT-APPL-SN-903019	c 46	N80-10709 *	US-PATENT-APPL-SN-938582	c 37	N80-23653 *	US-PATENT-CASE-165-104.25	c 34	N87-28867 *
US-PATENT-APPL-SN-904128	c 25	N87-18627 *	US-PATENT-APPL-SN-94049	c 14	N73-20476 *	US-PATENT-CASE-165-104.26	c 34	N87-28867 *
US-PATENT-APPL-SN-904132	c 02	N87-14282 *	US-PATENT-APPL-SN-940688	c 24	N79-24062 *	US-PATENT-CASE-165-13	c 34	N87-28867 *
US-PATENT-APPL-SN-904134	c 18	N87-15260 *	US-PATENT-APPL-SN-940689	c 35	N80-28686 *	US-PATENT-CASE-165-1	c 34	N87-28867 *
US-PATENT-APPL-SN-90595	c 03	N72-20031 *	US-PATENT-APPL-SN-940970	c 72	N80-27163 *	US-PATENT-CASE-165-32	c 34	N87-28867 *
US-PATENT-APPL-SN-906297	c 44	N79-14529 *	US-PATENT-APPL-SN-941711	c 24	N80-26388 *	US-PATENT-CASE-165-41	c 34	N87-28867 *
US-PATENT-APPL-SN-906298	c 76	N80-18951 *	US-PATENT-APPL-SN-942159	c 37	N87-18817 *	US-PATENT-CASE-179-146-R	c 05	N83-27975 *
US-PATENT-APPL-SN-906299	c 27	N80-16158 *	US-PATENT-APPL-SN-94259	c 37	N70-35534 *	US-PATENT-CASE-179-179	c 05	N83-27975 *
US-PATENT-APPL-SN-907421	c 37	N81-14318 *	US-PATENT-APPL-SN-943086	c 27	N80-32717 *	US-PATENT-CASE-244-121	c 05	N83-19737 *
US-PATENT-APPL-SN-907431	c 37	N81-25370 *	US-PATENT-APPL-SN-943087	c 15	N78-32168 *	US-PATENT-CASE-244-129.4	c 05	N83-19737 *
US-PATENT-APPL-SN-907435	c 27	N80-10358 *	US-PATENT-APPL-SN-943088	c 18	N80-14183 *	US-PATENT-CASE-292-254	c 05	N83-19737 *
US-PATENT-APPL-SN-907436	c 37	N80-14398 *	US-PATENT-APPL-SN-943089	c 74	N80-21140 *	US-PATENT-CASE-356-129	c 36	N83-29680 *
US-PATENT-APPL-SN-907479	c 27	N80-24438 *	US-PATENT-APPL-SN-943346	c 34	N87-18779 *	US-PATENT-CASE-367-906	c 05	N83-27975 *
US-PATENT-APPL-SN-909100	c 37	N79-28550 *	US-PATENT-APPL-SN-943437	c 05	N72-25122 *	US-PATENT-CASE-368-10	c 35	N83-29651 *
US-PATENT-APPL-SN-909235	c 07	N81-19115 *	US-PATENT-APPL-SN-943469	c 07	N71-28965 *	US-PATENT-CASE-368-118	c 35	N83-29651 *
US-PATENT-APPL-SN-909608	c 07	N81-19116 *	US-PATENT-APPL-SN-94374	c 14	N72-25411 *	US-PATENT-CASE-368-119	c 35	N83-29651 *
US-PATENT-APPL-SN-910707	c 32	N80-20448 *	US-PATENT-APPL-SN-945040	c 37	N82-24492 *	US-PATENT-CASE-368-120	c 35	N83-29651 *
US-PATENT-APPL-SN-910708	c 06	N80-18036 *	US-PATENT-APPL-SN-945041	c 43	N80-18498 *	US-PATENT-CASE-368-6	c 35	N83-29651 *
US-PATENT-APPL-SN-910793	c 44	N80-16452 *	US-PATENT-APPL-SN-945043	c 33	N81-33403 *	US-PATENT-CASE-368-9	c 35	N83-29651 *
US-PATENT-APPL-SN-910794	c 14	N81-26161 *	US-PATENT-APPL-SN-945044	c 54	N81-26718 *			
US-PATENT-APPL-SN-910992	c 52	N81-24711 *	US-PATENT-APPL-SN-945436	c 46	N80-24906 *	US-PATENT-CLAS-165-27	c 34	N83-34221 *
US-PATENT-APPL-SN-91180	c 14	N70-40240 *	US-PATENT-APPL-SN-946990	c 28	N80-23471 *	US-PATENT-CLAS-361-90	c 33	N83-34190 *
US-PATENT-APPL-SN-911851	c 29	N87-18679 *	US-PATENT-APPL-SN-946991	c 31	N81-27324 *			
US-PATENT-APPL-SN-912276	c 24	N81-29163 *	US-PATENT-APPL-SN-946992	c 45	N80-14579 *	US-PATENT-CLASS-D12-76	c 05	N75-25914 *
US-PATENT-APPL-SN-913432	c 18	N87-15259 *	US-PATENT-APPL-SN-946994	c 44	N79-31753 *	US-PATENT-CLASS-D71-1	c 05	N74-10907 *
US-PATENT-APPL-SN-913433	c 33	N87-15413 *	US-PATENT-APPL-SN-947000	c 28	N81-15119 *			
US-PATENT-APPL-SN-913446	c 37	N87-15465 *	US-PATENT-APPL-SN-94952	c 14	N70-34158 *	US-PATENT-CLASS-100-299	c 15	N72-20446 *
US-PATENT-APPL-SN-914260	c 44	N79-26474 *	US-PATENT-APPL-SN-949886	c 33	N80-18285 *	US-PATENT-CLASS-100-8	c 33	N74-17928 *
US-PATENT-APPL-SN-915050	c 44	N81-12542 *	US-PATENT-APPL-SN-950876	c 37	N80-31790 *	US-PATENT-CLASS-101-395	c 35	N84-22930 *
US-PATENT-APPL-SN-91642	c 14	N72-31446 *	US-PATENT-APPL-SN-950877	c 52	N81-25660 *	US-PATENT-CLASS-101-407BP	c 37	N84-12491 *
US-PATENT-APPL-SN-916654	c 07	N81-29129 *	US-PATENT-APPL-SN-951422	c 51	N81-14605 *	US-PATENT-CLASS-102-101	c 28	N71-26779 *
US-PATENT-APPL-SN-916655	c 44	N80-14472 *	US-PATENT-APPL-SN-951423	c 48	N80-18667 *	US-PATENT-CLASS-102-103	c 20	N78-32179 *
US-PATENT-APPL-SN-917125	c 35	N87-15452 *	US-PATENT-APPL-SN-951828	c 37	N80-29703 *	US-PATENT-CLASS-102-105	c 33	N72-17947 *
US-PATENT-APPL-SN-918533	c 32	N79-23310 *	US-PATENT-APPL-SN-951829	c 33	N80-18287 *	US-PATENT-CLASS-102-105	c 33	N72-25911 *
US-PATENT-APPL-SN-918534	c 33	N80-32650 *	US-PATENT-APPL-SN-951830	c 28	N80-28536 *	US-PATENT-CLASS-102-105	c 33	N73-25952 *
US-PATENT-APPL-SN-918535	c 35	N80-18357 *	US-PATENT-APPL-SN-951831	c 08	N73-12175 *	US-PATENT-CLASS-102-105	c 27	N74-27037 *
US-PATENT-APPL-SN-918537	c 26	N80-14229 *	US-PATENT-APPL-SN-95189	c 74	N77-21941 *	US-PATENT-CLASS-102-105	c 24	N79-25142 *
US-PATENT-APPL-SN-918705	c 52	N82-33996 *	US-PATENT-APPL-SN-953313	c 32	N81-14187 *	US-PATENT-CLASS-102-21.6	c 46	N79-22679 *
US-PATENT-APPL-SN-920878	c 44	N78-27184 *	US-PATENT-APPL-SN-953314	c 37	N81-14319 *	US-PATENT-CLASS-102-28EB	c 28	N74-27425 *
US-PATENT-APPL-SN-920879	c 24	N79-31752 *	US-PATENT-APPL-SN-953389	c 74	N80-27185 *	US-PATENT-CLASS-102-28R	c 28	N79-11231 *
US-PATENT-APPL-SN-921572	c 24	N87-18613 *	US-PATENT-APPL-SN-953390	c 74	N80-21138 *	US-PATENT-CLASS-102-289	c 27	N82-24339 *
US-PATENT-APPL-SN-921573	c 37	N87-14704 *	US-PATENT-APPL-SN-953391	c 72	N80-33186 *	US-PATENT-CLASS-102-34	c 07	N72-25171 *
US-PATENT-APPL-SN-921574	c 31	N87-15327 *	US-PATENT-APPL-SN-956160	c 32	N80-18253 *	US-PATENT-CLASS-102-378	c 01	N83-35992 *
US-PATENT-APPL-SN-921577	c 37	N87-14705 *	US-PATENT-APPL-SN-956161	c 27	N79-11215 *	US-PATENT-CLASS-102-39	c 20	N78-24275 *
US-PATENT-APPL-SN-921626	c 25	N80-23383 *	US-PATENT-APPL-SN-956166	c 33	N81-19393 *	US-PATENT-CLASS-102-49.3	c 20	N77-17143 *
US-PATENT-APPL-SN-921627	c 33	N80-14332 *	US-PATENT-APPL-SN-956168	c 27	N81-25209 *	US-PATENT-CLASS-102-49.5	c 31	N71-15687 *
US-PATENT-APPL-SN-923758	c 20	N78-27176 *	US-PATENT-APPL-SN-956529	c 35	N80-26635 *	US-PATENT-CLASS-102-49.5	c 15	N71-22874 *
US-PATENT-APPL-SN-923758	c 20	N80-10278 *	US-PATENT-APPL-SN-957452	c 32	N80-24510 *	US-PATENT-CLASS-102-49.5	c 31	N71-23008 *
US-PATENT-APPL-SN-924397	c 18	N87-18595 *	US-PATENT-APPL-SN-958573	c 25	N80-20334 *	US-PATENT-CLASS-102-49.5	c 31	N73-14853 *
US-PATENT-APPL-SN-924398	c 14	N87-25344 *	US-PATENT-APPL-SN-958575	c 27	N80-24437 *	US-PATENT-CLASS-102-49.7	c 28	N73-24784 *
US-PATENT-APPL-SN-924399	c 76	N87-15004 *	US-PATENT-APPL-SN-961831	c 33	N81-25299 *	US-PATENT-CLASS-102-49.7	c 20	N78-24275 *
US-PATENT-APPL-SN-924472	c 32	N87-18692 *	US-PATENT-APPL-SN-961832	c 37	N81-24442 *	US-PATENT-CLASS-102-49.8	c 28	N73-24784 *
US-PATENT-APPL-SN-924474	c 23	N87-14432 *	US-PATENT-APPL-SN-961833	c 37	N82-21587 *	US-PATENT-CLASS-102-49	c 33	N70-36846 *
US-PATENT-APPL-SN-925189	c 76	N87-19116 *	US-PATENT-APPL-SN-964009	c 02	N80-20224 *	US-PATENT-CLASS-102-49	c 28	N70-38181 *
US-PATENT-APPL-SN-9251	c 03	N70-34646 *	US-PATENT-APPL-SN-964754	c 33	N80-20487 *	US-PATENT-CLASS-102-49	c 03	N70-39930 *
US-PATENT-APPL-SN-927972	c 74	N87-19064 *	US-PATENT-APPL-SN-964754	c 44	N81-29524 *	US-PATENT-CLASS-102-49	c 15	N70-41679 *
US-PATENT-APPL-SN-927987	c 62	N87-19021 *	US-PATENT-APPL-SN-965367	c 33	N81-14221 *	US-PATENT-CLASS-102-49	c 28	N70-41967 *
US-PATENT-APPL-SN-927992	c 37	N87-18818 *	US-PATENT-APPL-SN-965368	c 74	N81-17888 *	US-PATENT-CLASS-102-49	c 31	N71-10582 *
US-PATENT-APPL-SN-928128	c 44	N80-18551 *	US-PATENT-APPL-SN-969755	c 05	N81-19087 *	US-PATENT-CLASS-102-49	c 15	N71-13789 *
US-PATENT-APPL-SN-928129	c 35	N80-14371 *	US-PATENT-APPL-SN-969756	c 37	N81-14317 *	US-PATENT-CLASS-102-49	c 31	N71-15692 *
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US-PATENT-CLASS-102-504	c 15	N82-24272 *	US-PATENT-CLASS-110-186	c 25	N84-16276 *	US-PATENT-CLASS-117-69	c 15	N71-16075 *
US-PATENT-CLASS-102-50	c 31	N71-24750 *	US-PATENT-CLASS-110-218	c 31	N81-15154 *	US-PATENT-CLASS-117-6	c 14	N71-20461 *
US-PATENT-CLASS-102-56R	c 02	N81-14968 *	US-PATENT-CLASS-110-229	c 31	N81-15154 *	US-PATENT-CLASS-117-6	c 27	N81-15104 *
US-PATENT-CLASS-102-70.2A	c 28	N74-27425 *	US-PATENT-CLASS-110-232	c 31	N81-15154 *	US-PATENT-CLASS-117-72	c 35	N75-25122 *
US-PATENT-CLASS-102-70.2R	c 19	N74-15089 *	US-PATENT-CLASS-110-234	c 25	N82-11144 *	US-PATENT-CLASS-117-8.5	c 24	N75-33181 *
US-PATENT-CLASS-102-70.2	c 09	N71-18599 *	US-PATENT-CLASS-110-245	c 25	N82-11144 *	US-PATENT-CLASS-117-93.1GD	c 25	N75-12087 *
US-PATENT-CLASS-102-70-2R	c 28	N74-27425 *	US-PATENT-CLASS-110-255	c 25	N82-11144 *	US-PATENT-CLASS-117-93.16D	c 15	N72-25447 *
US-PATENT-CLASS-102-70R	c 20	N78-24275 *	US-PATENT-CLASS-110-262	c 25	N84-16276 *	US-PATENT-CLASS-117-93.3	c 15	N72-25447 *
US-PATENT-CLASS-102-90	c 15	N74-27360 *	US-PATENT-CLASS-110-263	c 25	N84-16276 *	US-PATENT-CLASS-117-93.3	c 37	N75-15992 *
US-PATENT-CLASS-102-92.1	c 02	N81-14968 *	US-PATENT-CLASS-110-265	c 25	N84-16276 *	US-PATENT-CLASS-117-95	c 24	N74-19769 *
US-PATENT-CLASS-102-95	c 11	N73-32152 *	US-PATENT-CLASS-110-266	c 25	N82-11144 *	US-PATENT-CLASS-117-95	c 36	N75-15029 *
US-PATENT-CLASS-102-99	c 28	N77-10213 *	US-PATENT-CLASS-110-343	c 31	N81-15154 *	US-PATENT-CLASS-117-97	c 36	N75-15029 *
US-PATENT-CLASS-103.5R	c 04	N73-27052 *	US-PATENT-CLASS-110-347	c 31	N81-15154 *	US-PATENT-CLASS-118-11	c 15	N71-17647 *
US-PATENT-CLASS-103-1	c 26	N71-21824 *	US-PATENT-CLASS-112-402	c 18	N71-26285 *	US-PATENT-CLASS-118-300	c 71	N84-16940 *
US-PATENT-CLASS-103-37	c 28	N71-14058 *	US-PATENT-CLASS-113-116	c 15	N71-15597 *	US-PATENT-CLASS-118-308	c 17	N71-24911 *
US-PATENT-CLASS-103-48	c 15	N71-24042 *	US-PATENT-CLASS-114-122	c 02	N73-26006 *	US-PATENT-CLASS-118-313	c 51	N77-27677 *
US-PATENT-CLASS-104-DIG.4	c 44	N84-23019 *	US-PATENT-CLASS-114-16.6	c 37	N76-22540 *	US-PATENT-CLASS-118-320	c 37	N82-24492 *
US-PATENT-CLASS-104-138R	c 85	N74-34672 *	US-PATENT-CLASS-114-66.5	c 12	N70-33305 *	US-PATENT-CLASS-118-423	c 37	N82-12441 *
US-PATENT-CLASS-104-139	c 05	N71-28619 *	US-PATENT-CLASS-115-103.5	c 51	N75-13502 *	US-PATENT-CLASS-118-43	c 25	N75-29192 *
US-PATENT-CLASS-104-1	c 05	N71-28619 *	US-PATENT-CLASS-116-114.5	c 35	N75-25122 *	US-PATENT-CLASS-118-48	c 25	N75-26043 *
US-PATENT-CLASS-104-23FS	c 85	N74-34672 *	US-PATENT-CLASS-116-114AH	c 14	N72-25411 *	US-PATENT-CLASS-118-49.1	c 15	N72-32487 *
US-PATENT-CLASS-104-281	c 37	N85-20337 *	US-PATENT-CLASS-116-114AH	c 35	N75-33367 *	US-PATENT-CLASS-118-49.1	c 31	N75-12161 *
US-PATENT-CLASS-104-282	c 37	N83-32067 *	US-PATENT-CLASS-116-117	c 14	N70-42074 *	US-PATENT-CLASS-118-49.1	c 25	N75-26043 *
US-PATENT-CLASS-104-284	c 37	N85-20337 *	US-PATENT-CLASS-117-104	c 18	N71-26100 *	US-PATENT-CLASS-118-49.5	c 09	N71-26701 *
US-PATENT-CLASS-104-290	c 37	N83-32067 *	US-PATENT-CLASS-117-105.2	c 37	N74-11301 *	US-PATENT-CLASS-118-49	c 25	N79-28253 *
US-PATENT-CLASS-104-83	c 37	N82-21587 *	US-PATENT-CLASS-117-105.2	c 24	N75-33181 *	US-PATENT-CLASS-118-50.1	c 71	N84-16940 *
US-PATENT-CLASS-105-1A	c 37	N82-21587 *	US-PATENT-CLASS-117-105.5	c 15	N73-32360 *	US-PATENT-CLASS-118-50.1	c 36	N84-22944 *
US-PATENT-CLASS-105-161	c 43	N79-26439 *	US-PATENT-CLASS-117-105	c 15	N73-32360 *	US-PATENT-CLASS-118-500	c 37	N78-17383 *
US-PATENT-CLASS-105-171	c 37	N82-21587 *	US-PATENT-CLASS-117-106A	c 70	N74-13436 *	US-PATENT-CLASS-118-500	c 37	N82-12441 *
US-PATENT-CLASS-105-180	c 37	N82-21587 *	US-PATENT-CLASS-117-106A	c 37	N75-15992 *	US-PATENT-CLASS-118-500	c 37	N82-24492 *
US-PATENT-CLASS-105-2R	c 85	N82-33288 *	US-PATENT-CLASS-117-106A	c 25	N75-26043 *	US-PATENT-CLASS-118-500	c 71	N84-16940 *
US-PATENT-CLASS-105-218R	c 37	N82-21587 *	US-PATENT-CLASS-117-106	c 33	N71-14032 *	US-PATENT-CLASS-118-503	c 37	N82-24492 *
US-PATENT-CLASS-106-1.2	c 44	N79-31752 *	US-PATENT-CLASS-117-107.2	c 25	N75-26043 *	US-PATENT-CLASS-118-505	c 37	N82-24492 *
US-PATENT-CLASS-106-13	c 23	N75-14834 *	US-PATENT-CLASS-117-107	c 15	N72-25447 *	US-PATENT-CLASS-118-50	c 37	N78-17383 *
US-PATENT-CLASS-106-15FP	c 27	N74-27037 *	US-PATENT-CLASS-117-107	c 76	N79-16678 *	US-PATENT-CLASS-118-50	c 37	N81-33482 *
US-PATENT-CLASS-106-15FP	c 27	N76-24405 *	US-PATENT-CLASS-117-119	c 18	N71-16105 *	US-PATENT-CLASS-118-50	c 71	N84-16940 *
US-PATENT-CLASS-106-15FP	c 24	N78-15180 *	US-PATENT-CLASS-117-119	c 76	N79-16678 *	US-PATENT-CLASS-118-52	c 37	N81-33482 *
US-PATENT-CLASS-106-15R	c 23	N75-14834 *	US-PATENT-CLASS-117-124C	c 15	N72-25452 *	US-PATENT-CLASS-118-57	c 71	N84-16940 *
US-PATENT-CLASS-106-15	c 18	N71-14014 *	US-PATENT-CLASS-117-124F	c 23	N75-14834 *	US-PATENT-CLASS-118-624	c 36	N84-22944 *
US-PATENT-CLASS-106-15	c 18	N71-15469 *	US-PATENT-CLASS-117-126GM	c 37	N75-26371 *	US-PATENT-CLASS-118-62	c 71	N84-16940 *
US-PATENT-CLASS-106-18.16	c 27	N82-16238 *	US-PATENT-CLASS-117-126GR	c 27	N74-23125 *	US-PATENT-CLASS-118-641	c 36	N84-22944 *
US-PATENT-CLASS-106-18.24	c 27	N82-16238 *	US-PATENT-CLASS-117-126R	c 37	N75-26371 *	US-PATENT-CLASS-118-6	c 51	N77-27677 *
US-PATENT-CLASS-106-197	c 25	N82-29370 *	US-PATENT-CLASS-117-129	c 37	N74-21063 *	US-PATENT-CLASS-118-7	c 51	N77-27677 *
US-PATENT-CLASS-106-1	c 44	N79-31752 *	US-PATENT-CLASS-117-129	c 27	N75-27160 *	US-PATENT-CLASS-118-9	c 51	N77-27677 *
US-PATENT-CLASS-106-209	c 05	N72-25120 *	US-PATENT-CLASS-117-130R	c 15	N73-32360 *	US-PATENT-CLASS-119-15	c 11	N71-22875 *
US-PATENT-CLASS-106-286	c 18	N72-22566 *	US-PATENT-CLASS-117-132B	c 27	N74-23125 *	US-PATENT-CLASS-119-17	c 51	N81-32829 *
US-PATENT-CLASS-106-287SB	c 23	N75-14834 *	US-PATENT-CLASS-117-132	c 06	N72-25150 *	US-PATENT-CLASS-119-18	c 51	N81-32829 *
US-PATENT-CLASS-106-288B	c 18	N72-22566 *	US-PATENT-CLASS-117-135.5	c 23	N75-14834 *	US-PATENT-CLASS-119-29	c 51	N78-27733 *
US-PATENT-CLASS-106-292	c 18	N72-17532 *	US-PATENT-CLASS-117-138.8R	c 15	N73-32360 *	US-PATENT-CLASS-119-51.11	c 35	N78-19466 *
US-PATENT-CLASS-106-292	c 27	N77-30237 *	US-PATENT-CLASS-117-151	c 15	N73-32360 *	US-PATENT-CLASS-119-51.13	c 51	N74-15778 *
US-PATENT-CLASS-106-296	c 18	N71-26772 *	US-PATENT-CLASS-117-152	c 15	N72-25452 *	US-PATENT-CLASS-119-51.5	c 51	N74-15778 *
US-PATENT-CLASS-106-296	c 27	N77-30237 *	US-PATENT-CLASS-117-16R	c 15	N72-25452 *	US-PATENT-CLASS-119-51R	c 51	N74-15778 *
US-PATENT-CLASS-106-296	c 24	N79-14156 *	US-PATENT-CLASS-117-160R	c 15	N73-32360 *	US-PATENT-CLASS-119-52AF	c 51	N74-15778 *
US-PATENT-CLASS-106-299	c 18	N72-17532 *	US-PATENT-CLASS-117-161P	c 06	N73-27980 *	US-PATENT-CLASS-119-54	c 51	N74-15778 *
US-PATENT-CLASS-106-299	c 27	N77-30237 *	US-PATENT-CLASS-117-161UA	c 25	N75-12087 *	US-PATENT-CLASS-119-72.5	c 35	N78-19466 *
US-PATENT-CLASS-106-306	c 24	N76-24363 *	US-PATENT-CLASS-117-161UN	c 06	N73-27980 *	US-PATENT-CLASS-119-96	c 05	N71-28619 *
US-PATENT-CLASS-106-39.5	c 27	N78-19302 *	US-PATENT-CLASS-117-161UN	c 27	N74-23125 *	US-PATENT-CLASS-121-38	c 15	N70-35409 *
US-PATENT-CLASS-106-39R	c 18	N73-14584 *	US-PATENT-CLASS-117-161UN	c 25	N75-12087 *	US-PATENT-CLASS-121-38	c 02	N71-29128 *
US-PATENT-CLASS-106-39	c 26	N72-28762 *	US-PATENT-CLASS-117-161UZ	c 25	N75-12087 *	US-PATENT-CLASS-122-32	c 33	N72-20915 *
US-PATENT-CLASS-106-40	c 18	N71-22998 *	US-PATENT-CLASS-117-161	c 06	N72-25150 *	US-PATENT-CLASS-122-366	c 34	N85-29180 *
US-PATENT-CLASS-106-43	c 27	N78-17206 *	US-PATENT-CLASS-117-2R	c 32	N74-27612 *	US-PATENT-CLASS-122-366	c 34	N86-27593 *
US-PATENT-CLASS-106-43	c 37	N81-25371 *	US-PATENT-CLASS-117-200	c 09	N72-25259 *	US-PATENT-CLASS-122-4D	c 25	N82-11144 *
US-PATENT-CLASS-106-46	c 26	N72-28762 *	US-PATENT-CLASS-117-201	c 15	N69-21460 *	US-PATENT-CLASS-123-DIG.12	c 37	N76-18457 *
US-PATENT-CLASS-106-48	c 27	N75-27160 *	US-PATENT-CLASS-117-201	c 18	N71-16046 *	US-PATENT-CLASS-123-DIG.12	c 44	N78-33526 *
US-PATENT-CLASS-106-48	c 27	N78-32260 *	US-PATENT-CLASS-117-201	c 03	N72-24037 *	US-PATENT-CLASS-123-DIG.12	c 28	N80-10374 *
US-PATENT-CLASS-106-50	c 27	N82-29452 *	US-PATENT-CLASS-117-201	c 25	N75-26043 *	US-PATENT-CLASS-123-DIG.8	c 37	N77-31497 *
US-PATENT-CLASS-106-50	c 27	N82-29454 *	US-PATENT-CLASS-117-211	c 15	N72-25447 *	US-PATENT-CLASS-123-1A	c 44	N76-18457 *
US-PATENT-CLASS-106-50	c 27	N82-29455 *	US-PATENT-CLASS-117-212	c 09	N71-20705 *	US-PATENT-CLASS-123-1A	c 44	N78-33526 *
US-PATENT-CLASS-106-52	c 37	N74-21063 *	US-PATENT-CLASS-117-212	c 15	N71-29032 *	US-PATENT-CLASS-123-102	c 11	N72-20244 *
US-PATENT-CLASS-106-52	c 27	N82-29451 *	US-PATENT-CLASS-117-212	c 26	N72-28762 *	US-PATENT-CLASS-123-119A	c 37	N77-31497 *
US-PATENT-CLASS-106-52	c 27	N82-29452 *	US-PATENT-CLASS-117-217	c 15	N72-25447 *	US-PATENT-CLASS-123-119E	c 37	N76-18457 *
US-PATENT-CLASS-106-52	c 27	N82-29454 *	US-PATENT-CLASS-117-217	c 26	N72-28762 *	US-PATENT-CLASS-123-120	c 37	N76-18457 *
US-PATENT-CLASS-106-52	c 27	N82-29455 *	US-PATENT-CLASS-117-21	c 18	N69-39895 *	US-PATENT-CLASS-123-121	c 37	N76-18457 *
US-PATENT-CLASS-106-54	c 27	N75-27160 *	US-PATENT-CLASS-117-224	c 15	N71-28582 *	US-PATENT-CLASS-123-122AB	c 28	N72-22772 *
US-PATENT-CLASS-106-54	c 27	N76-22377 *	US-PATENT-CLASS-117-228	c 06	N73-27980 *	US-PATENT-CLASS-123-122AB	c 37	N77-31497 *
US-PATENT-CLASS-106-54	c 27	N76-23426 *	US-PATENT-CLASS-117-234	c 76	N79-16678 *	US-PATENT-CLASS-123-122E	c 07	N77-23106 *
US-PATENT-CLASS-106-54	c 27	N78-32260 *	US-PATENT-CLASS-117-235	c 76	N79-16678 *	US-PATENT-CLASS-123-122E	c 37	N78-10467 *
US-PATENT-CLASS-106-54	c 27	N82-29452 *	US-PATENT-CLASS-117-237	c 76	N79-16678 *	US-PATENT-CLASS-123-148CB	c 33	N77-28385 *
US-PATENT-CLASS-106-54	c 27	N82-29454 *	US-PATENT-CLASS-117-239	c 76	N79-16678 *	US-PATENT-CLASS-123-148DC	c 37	N79-11405 *
US-PATENT-CLASS-106-55	c 18	N73-14584 *	US-PATENT-CLASS-117-240	c 76	N79-16678 *	US-PATENT-CLASS-123-148E	c 33	N77-28385 *
US-PATENT-CLASS-106-58	c 18	N73-14584 *	US-PATENT-CLASS-117-33.3	c 70	N74-13436 *	US-PATENT-CLASS-123-148E	c 37	N79-11405 *
US-PATENT-CLASS-106-63	c 18	N73-14584 *	US-PATENT-CLASS-117-35R	c 06	N73-13128 *	US-PATENT-CLASS-123-179R	c 28	N80-10374 *
US-PATENT-CLASS-106-65	c 27	N78-19302 *	US-PATENT-CLASS-117-35	c 32	N79-19186 *	US-PATENT-CLASS-123-197R	c 37	N83-36483 *
US-PATENT-CLASS-106-73.5	c 27	N78-19302 *	US-PATENT-CLASS-117-37	c 15	N72-25452 *	US-PATENT-CLASS-123-37	c 37	N77-31497 *
US-PATENT-CLASS-106-74	c 18	N69-39979 *	US-PATENT-CLASS-117-38	c 24	N75-33181 *	US-PATENT-CLASS-123-3	c 44	N76-18642 *
US-PATENT-CLASS-106-74	c 24	N79-31347 *	US-PATENT-CLASS-117-43	c 31	N79-21227 *	US-PATENT-CLASS-123-3	c 44	N76-29700 *
US-PATENT-CLASS-106-84	c 18	N71-24183 *	US-PATENT-CLASS-117-45	c 74	N74-20008 *	US-PATENT-CLASS-123-3	c 44	N77-10636 *
US-PATENT-CLASS-106-84	c 18	N71-24184 *	US-PATENT-CLASS-117-46FS	c 24	N75-33181 *	US-PATENT-CLASS-123-3	c 37	N77-31497 *
US-PATENT-CLASS-106-84	c 18	N72-22566 *	US-PATENT-CLASS-117-46	c 15	N71-16077 *	US-PATENT-CLASS-123-3	c 44	N78-33526 *
US-PATENT-CLASS-106-84	c 18	N72-23581 *	US-PATENT-CLASS-117-47R	c 15	N72-25452 *	US-PATENT-CLASS-123-3	c 28	N80-10374 *
US-PATENT-CLASS-106-84	c 24	N79-14156 *	US-PATENT-CLASS-117-50	c 15	N71-15610 *	US-PATENT-CLASS-123-41.33	c 07	N77-23106 *
US-PATENT-CLASS-106-84	c 24	N79-31347 *	US-PATENT-CLASS-117-62	c 15	N72-25447 *	US-PATENT-CLASS-123-41.33	c 37	N78-10467 *
US-PATENT-CLASS-106-88	c 18	N71-16124 *	US-PATENT-CLASS-117-62	c 15	N72-25452 *	US-PATENT-CLASS-123-59E	c 37	N77-31497 *
US-PATENT-CLASS-108-136	c 09	N75-12968 *	US-PATENT-CLASS-117-65.2	c 18	N71-10772 *	US-PATENT-CLASS-123-78E	c 37	N83-36483 *
US-PATENT-CLASS-109-49.5	c 31	N81-19343 *	US-PATENT-CLASS-117-66	c 15	N73-32360 *	US-PATENT-CLASS-123-89A	c 37	N76-18457 *
US-PATENT-CLASS-109-58.5	c 31	N81-19343 *	US-PATENT-CLASS-117-69	c 18	N70-36400 *	US-PATENT-CLASS-124-11R	c 75	N76-17951 *

US-PATENT-CLASS-124-1	c 75	N76-17951 *	US-PATENT-CLASS-128-1.2	c 52	N82-22875 *	US-PATENT-CLASS-128-214D	c 52	N79-14749 *
US-PATENT-CLASS-124-56	c 18	N86-20469 *	US-PATENT-CLASS-128-1A	c 05	N73-32012 *	US-PATENT-CLASS-128-214E	c 52	N74-22771 *
US-PATENT-CLASS-124-6	c 09	N77-19076 *	US-PATENT-CLASS-128-1A	c 05	N84-16803 *	US-PATENT-CLASS-128-214F	c 37	N77-28487 *
US-PATENT-CLASS-125-13R	c 37	N85-21650 *	US-PATENT-CLASS-128-1R	c 52	N77-25772 *	US-PATENT-CLASS-128-230	c 52	N75-33640 *
US-PATENT-CLASS-125-15	c 37	N85-21650 *	US-PATENT-CLASS-128-1R	c 52	N77-28716 *	US-PATENT-CLASS-128-236	c 51	N81-14605 *
US-PATENT-CLASS-125-1	c 46	N74-23069 *	US-PATENT-CLASS-128-1R	c 52	N81-25660 *	US-PATENT-CLASS-128-24A	c 52	N84-34913 *
US-PATENT-CLASS-125-20	c 31	N83-27058 *	US-PATENT-CLASS-128-1R	c 52	N84-11744 *	US-PATENT-CLASS-128-24A	c 05	N73-27062 *
US-PATENT-CLASS-125-21	c 37	N80-29703 *	US-PATENT-CLASS-128-142.2	c 54	N76-24900 *	US-PATENT-CLASS-128-24A	c 54	N75-27760 *
US-PATENT-CLASS-125-23R	c 76	N80-18951 *	US-PATENT-CLASS-128-142.5	c 05	N71-11190 *	US-PATENT-CLASS-128-24	c 05	N71-24738 *
US-PATENT-CLASS-125-23R	c 37	N82-32730 *	US-PATENT-CLASS-128-142.5	c 05	N71-11203 *	US-PATENT-CLASS-128-25R	c 37	N74-18127 *
US-PATENT-CLASS-125-3	c 46	N74-23069 *	US-PATENT-CLASS-128-142.5	c 05	N71-17599 *	US-PATENT-CLASS-128-25	c 05	N71-24738 *
US-PATENT-CLASS-126-DIG.1	c 44	N85-30474 *	US-PATENT-CLASS-128-142.5	c 05	N72-20096 *	US-PATENT-CLASS-128-26	c 52	N76-19785 *
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US-PATENT-CLASS-126-263	c 44	N78-17460 *	US-PATENT-CLASS-128-142.7	c 54	N78-32721 *	US-PATENT-CLASS-128-272	c 52	N79-14749 *
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US-PATENT-CLASS-136-202	c 09	N72-12136 *	US-PATENT-CLASS-136-89P	c 44	N77-31601 *	US-PATENT-CLASS-137-582	c 32	N71-16106 *
US-PATENT-CLASS-136-202	c 03	N72-26031 *	US-PATENT-CLASS-136-89P	c 44	N78-25528 *	US-PATENT-CLASS-137-582	c 15	N71-19569 *
US-PATENT-CLASS-136-202	c 44	N76-16612 *	US-PATENT-CLASS-136-89P	c 44	N78-25529 *	US-PATENT-CLASS-137-582	c 15	N73-26472 *
US-PATENT-CLASS-136-202	c 35	N77-32454 *	US-PATENT-CLASS-136-89P	c 44	N78-27515 *	US-PATENT-CLASS-137-590	c 20	N80-10278 *
US-PATENT-CLASS-136-202	c 35	N79-14346 *	US-PATENT-CLASS-136-89P	c 44	N79-17314 *	US-PATENT-CLASS-137-594	c 12	N71-18615 *
US-PATENT-CLASS-136-206	c 03	N72-11062 *	US-PATENT-CLASS-136-89P	c 44	N80-14474 *	US-PATENT-CLASS-137-604	c 15	N73-27406 *
US-PATENT-CLASS-136-206	c 09	N72-12136 *	US-PATENT-CLASS-136-89SG	c 44	N78-24609 *	US-PATENT-CLASS-137-606	c 37	N87-21332 *
US-PATENT-CLASS-136-206	c 44	N76-14595 *	US-PATENT-CLASS-136-89SG	c 44	N80-24741 *	US-PATENT-CLASS-137-608	c 15	N73-13462 *
US-PATENT-CLASS-136-206	c 44	N76-31666 *	US-PATENT-CLASS-136-89SJ	c 44	N78-13526 *	US-PATENT-CLASS-137-614.06	c 37	N79-11402 *
US-PATENT-CLASS-136-210	c 44	N74-19693 *	US-PATENT-CLASS-136-89SJ	c 44	N79-11467 *	US-PATENT-CLASS-137-614.11	c 37	N87-25573 *
US-PATENT-CLASS-136-211	c 35	N76-15434 *	US-PATENT-CLASS-136-89SJ	c 44	N79-14528 *	US-PATENT-CLASS-137-614.18	c 37	N87-25573 *
US-PATENT-CLASS-136-212	c 35	N76-15434 *	US-PATENT-CLASS-136-89	c 03	N69-24267 *	US-PATENT-CLASS-137-615	c 12	N71-16031 *
US-PATENT-CLASS-136-213	c 14	N69-27459 *	US-PATENT-CLASS-136-89	c 03	N71-11049 *	US-PATENT-CLASS-137-624.11	c 35	N78-19466 *
US-PATENT-CLASS-136-213	c 34	N74-27861 *	US-PATENT-CLASS-136-89	c 03	N71-11050 *	US-PATENT-CLASS-137-624.14	c 03	N69-21469 *
US-PATENT-CLASS-136-224	c 14	N73-24477 *	US-PATENT-CLASS-136-89	c 03	N71-10556 *	US-PATENT-CLASS-137-625.38	c 37	N78-25426 *
US-PATENT-CLASS-136-225	c 14	N73-24472 *	US-PATENT-CLASS-136-89	c 03	N71-18698 *	US-PATENT-CLASS-137-625.3	c 37	N78-25426 *
US-PATENT-CLASS-136-225	c 35	N76-15434 *	US-PATENT-CLASS-136-89	c 03	N71-19545 *	US-PATENT-CLASS-137-625.4	c 37	N80-23654 *
US-PATENT-CLASS-136-225	c 44	N85-21768 *	US-PATENT-CLASS-136-89	c 03	N71-20492 *	US-PATENT-CLASS-137-625.5	c 15	N71-23051 *
US-PATENT-CLASS-136-227	c 09	N72-12136 *	US-PATENT-CLASS-136-89	c 03	N71-20895 *	US-PATENT-CLASS-137-625.69	c 15	N70-36908 *
US-PATENT-CLASS-136-228	c 33	N71-15568 *	US-PATENT-CLASS-136-89	c 26	N71-23043 *	US-PATENT-CLASS-137-628	c 37	N74-21065 *
US-PATENT-CLASS-136-230	c 14	N71-23039 *	US-PATENT-CLASS-136-89	c 03	N71-23187 *	US-PATENT-CLASS-137-637.05	c 37	N79-11402 *
US-PATENT-CLASS-136-230	c 34	N74-27861 *	US-PATENT-CLASS-136-89	c 03	N71-23449 *	US-PATENT-CLASS-137-81.5	c 12	N69-21466 *
US-PATENT-CLASS-136-232	c 35	N77-14409 *	US-PATENT-CLASS-136-89	c 03	N71-33409 *	US-PATENT-CLASS-137-81.5	c 15	N71-15609 *
US-PATENT-CLASS-136-233	c 14	N72-27410 *	US-PATENT-CLASS-136-89	c 03	N72-20031 *	US-PATENT-CLASS-137-81.5	c 12	N71-17578 *
US-PATENT-CLASS-136-233	c 14	N73-13417 *	US-PATENT-CLASS-136-89	c 03	N72-22042 *	US-PATENT-CLASS-137-81.5	c 10	N71-25899 *
US-PATENT-CLASS-136-233	c 34	N74-27861 *	US-PATENT-CLASS-136-89	c 31	N72-22874 *	US-PATENT-CLASS-137-81.5	c 12	N71-27332 *
US-PATENT-CLASS-136-233	c 35	N77-14409 *	US-PATENT-CLASS-136-89	c 03	N72-24037 *	US-PATENT-CLASS-137-81.5	c 12	N71-28741 *
US-PATENT-CLASS-136-236R	c 35	N77-32454 *	US-PATENT-CLASS-136-89	c 09	N72-25259 *	US-PATENT-CLASS-137-81.5	c 28	N72-22772 *
US-PATENT-CLASS-136-236	c 35	N79-14346 *	US-PATENT-CLASS-136-89	c 03	N72-27053 *	US-PATENT-CLASS-137-81.5	c 15	N73-13462 *
US-PATENT-CLASS-136-240	c 35	N77-32454 *	US-PATENT-CLASS-136-89	c 09	N73-32109 *	US-PATENT-CLASS-137-81.5	c 15	N73-13462 *
US-PATENT-CLASS-136-246	c 44	N85-21768 *	US-PATENT-CLASS-136-89	c 44	N74-14784 *	US-PATENT-CLASS-137-81.5	c 15	N73-13462 *
US-PATENT-CLASS-136-249	c 44	N81-12542 *	US-PATENT-CLASS-136-89	c 44	N76-14600 *	US-PATENT-CLASS-137-81.5	c 28	N73-13773 *
US-PATENT-CLASS-136-249	c 44	N82-29709 *	US-PATENT-CLASS-136-89	c 44	N76-28635 *	US-PATENT-CLASS-137-819	c 33	N74-11050 *
US-PATENT-CLASS-136-249	c 44	N82-31764 *	US-PATENT-CLASS-136-89	c 44	N76-31666 *	US-PATENT-CLASS-137-81	c 05	N72-20097 *
US-PATENT-CLASS-136-249	c 44	N83-32177 *	US-PATENT-CLASS-136-89	c 44	N77-10635 *	US-PATENT-CLASS-137-833	c 33	N74-11050 *
US-PATENT-CLASS-136-249	c 44	N87-17399 *	US-PATENT-CLASS-136-89	c 44	N77-14580 *	US-PATENT-CLASS-137-838	c 71	N84-28568 *
US-PATENT-CLASS-136-249	c 33	N87-23879 *	US-PATENT-CLASS-136-89	c 44	N77-19571 *	US-PATENT-CLASS-137-840	c 33	N74-11050 *
US-PATENT-CLASS-136-24	c 09	N73-32108 *	US-PATENT-CLASS-136-89	c 44	N79-11468 *	US-PATENT-CLASS-137-886	c 37	N81-17433 *
US-PATENT-CLASS-136-253	c 44	N85-34441 *	US-PATENT-CLASS-136-90	c 44	N76-14601 *	US-PATENT-CLASS-137-887	c 37	N85-34403 *
US-PATENT-CLASS-136-255	c 44	N81-29525 *	US-PATENT-CLASS-137-DIG.9	c 54	N76-24900 *	US-PATENT-CLASS-138.8R	c 27	N81-15104 *
US-PATENT-CLASS-136-255	c 44	N83-14692 *	US-PATENT-CLASS-137-101	c 07	N77-23106 *	US-PATENT-CLASS-138-103	c 52	N80-16725 *
US-PATENT-CLASS-136-255	c 33	N85-21492 *	US-PATENT-CLASS-137-104	c 37	N78-10467 *	US-PATENT-CLASS-138-113	c 34	N75-12222 *
US-PATENT-CLASS-136-255	c 44	N85-30475 *	US-PATENT-CLASS-137-110	c 54	N76-24900 *	US-PATENT-CLASS-138-114	c 34	N75-12222 *
US-PATENT-CLASS-136-255	c 76	N86-20150 *	US-PATENT-CLASS-137-116.3	c 37	N85-34403 *	US-PATENT-CLASS-138-119	c 32	N70-41579 *
US-PATENT-CLASS-136-255	c 33	N87-23879 *	US-PATENT-CLASS-137-13	c 15	N71-15967 *	US-PATENT-CLASS-138-120	c 54	N86-28619 *
US-PATENT-CLASS-136-256	c 44	N83-13579 *	US-PATENT-CLASS-137-13	c 15	N72-33477 *	US-PATENT-CLASS-138-120	c 54	N86-28620 *
US-PATENT-CLASS-136-256	c 44	N83-14692 *	US-PATENT-CLASS-137-14	c 37	N79-33468 *	US-PATENT-CLASS-138-120	c 54	N86-29507 *
US-PATENT-CLASS-136-256	c 44	N85-20530 *	US-PATENT-CLASS-137-15.1	c 02	N74-20646 *	US-PATENT-CLASS-138-133	c 52	N80-16725 *
US-PATENT-CLASS-136-256	c 44	N85-30475 *	US-PATENT-CLASS-137-15.1	c 07	N74-31270 *	US-PATENT-CLASS-138-148	c 34	N75-12222 *
US-PATENT-CLASS-136-258	c 44	N81-19558 *	US-PATENT-CLASS-137-15.1	c 07	N75-24736 *	US-PATENT-CLASS-138-178	c 15	N72-20445 *
US-PATENT-CLASS-136-258	c 44	N81-29525 *	US-PATENT-CLASS-137-15.1	c 07	N77-18154 *	US-PATENT-CLASS-138-33	c 52	N80-16725 *
US-PATENT-CLASS-136-259	c 44	N83-13579 *	US-PATENT-CLASS-137-15.1	c 07	N79-14096 *	US-PATENT-CLASS-138-42	c 15	N71-15608 *
US-PATENT-CLASS-136-259	c 44	N83-14692 *	US-PATENT-CLASS-137-15.1	c 05	N79-24976 *	US-PATENT-CLASS-138-42	c 44	N84-14583 *
US-PATENT-CLASS-136-261	c 44	N82-26777 *	US-PATENT-CLASS-137-15.1	c 07	N81-14999 *			
US-PATENT-CLASS-136-261	c 44	N85-30475 *	US-PATENT-CLASS-137-15.2	c 02	N74-20646 *			
US-PATENT-CLASS-136-261	c 44	N86-32875 *	US-PATENT-CLASS-137-15.2	c 35	N76-14431 *			

US-PATENT-CLASS-138-43	c 15	N71-19213 *	US-PATENT-CLASS-149-19.4	c 28	N78-31255 *	US-PATENT-CLASS-156-215	c 35	N84-12443 *
US-PATENT-CLASS-138-45	c 15	N71-18580 *	US-PATENT-CLASS-149-19.4	c 20	N78-32179 *	US-PATENT-CLASS-156-218	c 54	N74-32546 *
US-PATENT-CLASS-138-46	c 12	N71-13462 *	US-PATENT-CLASS-149-19.4	c 28	N79-28342 *	US-PATENT-CLASS-156-229	c 24	N77-28225 *
US-PATENT-CLASS-138-47	c 15	N71-18615 *	US-PATENT-CLASS-149-19.8	c 28	N78-31255 *	US-PATENT-CLASS-156-229	c 74	N87-28416 *
US-PATENT-CLASS-138-96R	c 37	N71-18580 *	US-PATENT-CLASS-149-19.92	c 28	N79-14228 *	US-PATENT-CLASS-156-230	c 35	N84-12443 *
US-PATENT-CLASS-138-97	c 37	N79-22474 *	US-PATENT-CLASS-149-19.9	c 28	N79-14228 *	US-PATENT-CLASS-156-235	c 35	N84-12443 *
US-PATENT-CLASS-138-97	c 37	N86-32736 *	US-PATENT-CLASS-149-19.9	c 28	N79-28342 *	US-PATENT-CLASS-156-242	c 15	N69-24322 *
US-PATENT-CLASS-139-425R	c 28	N72-11708 *	US-PATENT-CLASS-149-19.9	c 28	N80-28536 *	US-PATENT-CLASS-156-242	c 37	N76-24575 *
US-PATENT-CLASS-140-105	c 15	N72-12408 *	US-PATENT-CLASS-149-19	c 27	N71-14090 *	US-PATENT-CLASS-156-242	c 24	N81-33235 *
US-PATENT-CLASS-140-123	c 15	N71-15918 *	US-PATENT-CLASS-149-19	c 27	N72-25699 *	US-PATENT-CLASS-156-245	c 31	N74-18089 *
US-PATENT-CLASS-140-124	c 15	N71-10809 *	US-PATENT-CLASS-149-19	c 27	N73-16764 *	US-PATENT-CLASS-156-245	c 24	N78-17149 *
US-PATENT-CLASS-141-197	c 35	N78-10428 *	US-PATENT-CLASS-149-1	c 23	N71-16212 *	US-PATENT-CLASS-156-245	c 24	N81-33235 *
US-PATENT-CLASS-141-198	c 25	N86-27431 *	US-PATENT-CLASS-149-1	c 06	N73-30097 *	US-PATENT-CLASS-156-247	c 31	N74-18089 *
US-PATENT-CLASS-141-23	c 15	N72-21465 *	US-PATENT-CLASS-149-1	c 28	N80-20402 *	US-PATENT-CLASS-156-250	c 03	N72-25019 *
US-PATENT-CLASS-141-258	c 14	N71-27005 *	US-PATENT-CLASS-149-1	c 28	N81-14103 *	US-PATENT-CLASS-156-252	c 24	N81-33235 *
US-PATENT-CLASS-141-4	c 35	N78-10428 *	US-PATENT-CLASS-149-20	c 27	N72-25699 *	US-PATENT-CLASS-156-252	c 05	N72-25121 *
US-PATENT-CLASS-141-5	c 33	N71-20834 *	US-PATENT-CLASS-149-20	c 28	N79-14228 *	US-PATENT-CLASS-156-264	c 24	N78-17150 *
US-PATENT-CLASS-141-91	c 12	N71-21089 *	US-PATENT-CLASS-149-20	c 28	N79-28342 *	US-PATENT-CLASS-156-264	c 24	N81-33235 *
US-PATENT-CLASS-148-DIG.26	c 76	N85-30922 *	US-PATENT-CLASS-149-20	c 28	N80-28536 *	US-PATENT-CLASS-156-264	c 31	N83-34073 *
US-PATENT-CLASS-148-1.5	c 26	N71-10607 *	US-PATENT-CLASS-149-2	c 12	N70-40124 *	US-PATENT-CLASS-156-267	c 27	N81-14077 *
US-PATENT-CLASS-148-1.5	c 26	N71-23654 *	US-PATENT-CLASS-149-36	c 27	N72-25699 *	US-PATENT-CLASS-156-272.4	c 31	N85-29083 *
US-PATENT-CLASS-148-1.5	c 76	N74-20329 *	US-PATENT-CLASS-149-36	c 27	N73-16764 *	US-PATENT-CLASS-156-272	c 27	N80-32516 *
US-PATENT-CLASS-148-1.5	c 44	N80-29835 *	US-PATENT-CLASS-149-36	c 06	N73-30097 *	US-PATENT-CLASS-156-272	c 33	N82-26571 *
US-PATENT-CLASS-148-1.5	c 33	N81-26360 *	US-PATENT-CLASS-149-36	c 24	N76-14203 *	US-PATENT-CLASS-156-273.7	c 27	N85-20125 *
US-PATENT-CLASS-148-1.5	c 44	N82-26777 *	US-PATENT-CLASS-149-37	c 44	N80-20808 *	US-PATENT-CLASS-156-273.9	c 31	N85-29083 *
US-PATENT-CLASS-148-1.5	c 44	N82-29709 *	US-PATENT-CLASS-149-42	c 20	N78-32179 *	US-PATENT-CLASS-156-278	c 44	N80-18550 *
US-PATENT-CLASS-148-1.5	c 44	N86-32875 *	US-PATENT-CLASS-149-43	c 20	N78-32179 *	US-PATENT-CLASS-156-285	c 15	N71-23052 *
US-PATENT-CLASS-148-11.5R	c 15	N73-13465 *	US-PATENT-CLASS-149-44	c 20	N78-32179 *	US-PATENT-CLASS-156-285	c 31	N74-18089 *
US-PATENT-CLASS-148-12.4	c 26	N79-22271 *	US-PATENT-CLASS-149-60	c 28	N74-33209 *	US-PATENT-CLASS-156-285	c 24	N74-27035 *
US-PATENT-CLASS-148-12.7A	c 26	N78-24333 *	US-PATENT-CLASS-149-76	c 28	N74-33209 *	US-PATENT-CLASS-156-285	c 24	N78-17149 *
US-PATENT-CLASS-148-12.7N	c 26	N77-20201 *	US-PATENT-CLASS-149-76	c 20	N78-32179 *	US-PATENT-CLASS-156-285	c 24	N78-17150 *
US-PATENT-CLASS-148-12F	c 26	N79-22271 *	US-PATENT-CLASS-149-83	c 20	N78-32179 *	US-PATENT-CLASS-156-285	c 44	N80-18550 *
US-PATENT-CLASS-148-121	c 76	N79-16678 *	US-PATENT-CLASS-149-85	c 20	N78-32179 *	US-PATENT-CLASS-156-285	c 24	N80-26388 *
US-PATENT-CLASS-148-125	c 26	N78-24333 *	US-PATENT-CLASS-149-88	c 28	N78-31255 *	US-PATENT-CLASS-156-285	c 24	N81-29163 *
US-PATENT-CLASS-148-126	c 17	N71-24142 *	US-PATENT-CLASS-149-92	c 27	N72-25699 *	US-PATENT-CLASS-156-285	c 24	N81-33235 *
US-PATENT-CLASS-148-126	c 18	N71-26153 *	US-PATENT-CLASS-149-92	c 28	N78-31255 *	US-PATENT-CLASS-156-285	c 52	N84-28389 *
US-PATENT-CLASS-148-126	c 18	N71-28729 *	US-PATENT-CLASS-149-93	c 28	N78-31255 *	US-PATENT-CLASS-156-286	c 37	N76-21554 *
US-PATENT-CLASS-148-126	c 26	N74-10521 *	US-PATENT-CLASS-15-143	c 15	N72-11390 *	US-PATENT-CLASS-156-286	c 37	N76-24575 *
US-PATENT-CLASS-148-127	c 26	N75-29236 *	US-PATENT-CLASS-15-210	c 15	N72-11390 *	US-PATENT-CLASS-156-286	c 24	N78-17150 *
US-PATENT-CLASS-148-131	c 26	N80-28492 *	US-PATENT-CLASS-15-230.16	c 37	N79-10422 *	US-PATENT-CLASS-156-286	c 37	N87-23981 *
US-PATENT-CLASS-148-13	c 14	N71-25892 *	US-PATENT-CLASS-15-230.17	c 37	N79-10422 *	US-PATENT-CLASS-156-286	c 74	N87-28416 *
US-PATENT-CLASS-148-162	c 26	N77-20201 *	US-PATENT-CLASS-15-406	c 37	N85-21652 *	US-PATENT-CLASS-156-289	c 24	N78-17150 *
US-PATENT-CLASS-148-162	c 26	N87-28647 *	US-PATENT-CLASS-15-415	c 14	N73-30395 *	US-PATENT-CLASS-156-289	c 24	N78-17150 *
US-PATENT-CLASS-148-173	c 76	N83-20789 *	US-PATENT-CLASS-150-11	c 37	N81-14317 *	US-PATENT-CLASS-156-289	c 52	N84-28389 *
US-PATENT-CLASS-148-174	c 26	N71-29156 *	US-PATENT-CLASS-150-1	c 52	N79-14749 *	US-PATENT-CLASS-156-289	c 37	N87-23981 *
US-PATENT-CLASS-148-174	c 44	N78-28635 *	US-PATENT-CLASS-151-41.76	c 37	N80-23653 *	US-PATENT-CLASS-156-290	c 24	N81-33235 *
US-PATENT-CLASS-148-174	c 44	N78-24609 *	US-PATENT-CLASS-152-11	c 31	N71-18611 *	US-PATENT-CLASS-156-292	c 27	N80-32516 *
US-PATENT-CLASS-148-174	c 76	N85-30922 *	US-PATENT-CLASS-152-225	c 15	N71-27091 *	US-PATENT-CLASS-156-292	c 24	N81-17170 *
US-PATENT-CLASS-148-174	c 76	N87-15882 *	US-PATENT-CLASS-152-250	c 15	N71-27091 *	US-PATENT-CLASS-156-294	c 37	N81-14317 *
US-PATENT-CLASS-148-175	c 25	N75-26043 *	US-PATENT-CLASS-152-330Rf	c 37	N81-24443 *	US-PATENT-CLASS-156-294	c 24	N81-29163 *
US-PATENT-CLASS-148-175	c 76	N76-25049 *	US-PATENT-CLASS-152-353R	c 37	N81-24443 *	US-PATENT-CLASS-156-294	c 35	N84-12443 *
US-PATENT-CLASS-148-175	c 44	N78-28635 *	US-PATENT-CLASS-152-353R	c 37	N81-24443 *	US-PATENT-CLASS-156-295	c 27	N81-14077 *
US-PATENT-CLASS-148-175	c 44	N82-28780 *	US-PATENT-CLASS-152-379.4	c 37	N81-24443 *	US-PATENT-CLASS-156-298	c 37	N87-23981 *
US-PATENT-CLASS-148-175	c 76	N83-20789 *	US-PATENT-CLASS-156-307.7	c 27	N82-11206 *	US-PATENT-CLASS-156-300	c 24	N78-17150 *
US-PATENT-CLASS-148-175	c 76	N85-30922 *	US-PATENT-CLASS-156-DIG.6-8	c 76	N79-23798 *	US-PATENT-CLASS-156-303	c 44	N80-18550 *
US-PATENT-CLASS-148-175	c 76	N87-15882 *	US-PATENT-CLASS-156-DIG.62	c 76	N77-32919 *	US-PATENT-CLASS-156-304.3	c 27	N84-22748 *
US-PATENT-CLASS-148-187	c 26	N72-17820 *	US-PATENT-CLASS-156-DIG.62	c 35	N83-24828 *	US-PATENT-CLASS-156-304.6	c 27	N84-22748 *
US-PATENT-CLASS-148-187	c 14	N72-28438 *	US-PATENT-CLASS-156-DIG.64	c 33	N85-29142 *	US-PATENT-CLASS-156-306	c 24	N78-17150 *
US-PATENT-CLASS-148-187	c 33	N81-26360 *	US-PATENT-CLASS-156-DIG.64	c 76	N79-11920 *	US-PATENT-CLASS-156-307.1	c 37	N87-23981 *
US-PATENT-CLASS-148-187	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.64	c 44	N80-24741 *	US-PATENT-CLASS-156-307.3	c 27	N82-11206 *
US-PATENT-CLASS-148-188	c 24	N71-10560 *	US-PATENT-CLASS-156-DIG.64	c 76	N80-32245 *	US-PATENT-CLASS-156-307.3	c 37	N87-23981 *
US-PATENT-CLASS-148-188	c 09	N71-12513 *	US-PATENT-CLASS-156-DIG.64	c 76	N84-35113 *	US-PATENT-CLASS-156-307.5	c 27	N82-11206 *
US-PATENT-CLASS-148-188	c 44	N79-11468 *	US-PATENT-CLASS-156-DIG.65	c 76	N79-11920 *	US-PATENT-CLASS-156-307.7	c 37	N87-23981 *
US-PATENT-CLASS-148-188	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.65	c 76	N85-30922 *	US-PATENT-CLASS-156-307	c 27	N86-20561 *
US-PATENT-CLASS-148-189	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.6	c 76	N83-35888 *	US-PATENT-CLASS-156-308	c 05	N72-25121 *
US-PATENT-CLASS-148-190	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.73	c 76	N83-35888 *	US-PATENT-CLASS-156-309.9	c 27	N86-20561 *
US-PATENT-CLASS-148-20.3	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.73	c 27	N83-36220 *	US-PATENT-CLASS-156-309	c 31	N74-18089 *
US-PATENT-CLASS-148-2	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.88	c 76	N79-11920 *	US-PATENT-CLASS-156-309	c 27	N78-17205 *
US-PATENT-CLASS-148-2	c 26	N79-22271 *	US-PATENT-CLASS-156-DIG.88	c 76	N80-32245 *	US-PATENT-CLASS-156-311	c 24	N78-17150 *
US-PATENT-CLASS-148-32	c 26	N78-18183 *	US-PATENT-CLASS-156-DIG.88	c 76	N84-35113 *	US-PATENT-CLASS-156-312	c 44	N80-18550 *
US-PATENT-CLASS-148-32.5	c 17	N72-22535 *	US-PATENT-CLASS-156-DIG.88	c 76	N85-30922 *	US-PATENT-CLASS-156-315	c 27	N82-24340 *
US-PATENT-CLASS-148-32.5	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.88	c 76	N86-28760 *	US-PATENT-CLASS-156-320	c 15	N72-11392 *
US-PATENT-CLASS-148-32.5	c 26	N77-32280 *	US-PATENT-CLASS-156-DIG.88	c 27	N83-36220 *	US-PATENT-CLASS-156-323	c 27	N81-14077 *
US-PATENT-CLASS-148-32.5	c 26	N78-18183 *	US-PATENT-CLASS-156-DIG.96	c 76	N80-32244 *	US-PATENT-CLASS-156-329	c 27	N82-29456 *
US-PATENT-CLASS-148-32	c 26	N77-32279 *	US-PATENT-CLASS-156-DIG.96	c 33	N81-19389 *	US-PATENT-CLASS-156-330	c 24	N81-14000 *
US-PATENT-CLASS-148-32	c 26	N80-23419 *	US-PATENT-CLASS-156-DIG.98	c 76	N84-35113 *	US-PATENT-CLASS-156-331.5	c 27	N82-11206 *
US-PATENT-CLASS-148-33.2	c 76	N85-30922 *	US-PATENT-CLASS-156-104	c 44	N80-18550 *	US-PATENT-CLASS-156-331.5	c 27	N86-20561 *
US-PATENT-CLASS-148-410	c 26	N87-28647 *	US-PATENT-CLASS-156-154	c 24	N78-17150 *	US-PATENT-CLASS-156-331	c 37	N74-18126 *
US-PATENT-CLASS-148-428	c 26	N82-31505 *	US-PATENT-CLASS-156-154	c 27	N81-14077 *	US-PATENT-CLASS-156-331	c 24	N79-16915 *
US-PATENT-CLASS-148-429	c 26	N87-14482 *	US-PATENT-CLASS-156-157	c 33	N82-26571 *	US-PATENT-CLASS-156-331	c 27	N81-14077 *
US-PATENT-CLASS-148-6.11	c 15	N71-24875 *	US-PATENT-CLASS-156-160	c 27	N81-14077 *	US-PATENT-CLASS-156-338	c 27	N82-24340 *
US-PATENT-CLASS-148-6.16	c 18	N71-23047 *	US-PATENT-CLASS-156-161	c 24	N81-29163 *	US-PATENT-CLASS-156-344	c 28	N81-14103 *
US-PATENT-CLASS-148-6.20	c 17	N71-23828 *	US-PATENT-CLASS-156-163	c 27	N81-14077 *	US-PATENT-CLASS-156-344	c 31	N83-34073 *
US-PATENT-CLASS-148-6.3	c 17	N71-33408 *	US-PATENT-CLASS-156-163	c 74	N87-28416 *	US-PATENT-CLASS-156-345	c 15	N70-42033 *
US-PATENT-CLASS-148-6.3	c 44	N79-18444 *	US-PATENT-CLASS-156-165	c 24	N81-29163 *	US-PATENT-CLASS-156-345	c 31	N87-21160 *
US-PATENT-CLASS-148-6.3	c 26	N87-25455 *	US-PATENT-CLASS-156-166	c 74	N85-29749 *	US-PATENT-CLASS-156-379.7	c 33	N82-26571 *
US-PATENT-CLASS-148-6	c 18	N71-29040 *	US-PATENT-CLASS-156-172	c 74	N75-12732 *	US-PATENT-CLASS-156-380.2	c 31	N85-29083 *
US-PATENT-CLASS-148-6	c 76	N79-16678 *	US-PATENT-CLASS-156-17	c 15	N71-17651 *	US-PATENT-CLASS-156-382	c 37	N76-21554 *
US-PATENT-CLASS-149-105	c 28	N78-31255 *	US-PATENT-CLASS-156-18	c 76	N79-21910 *	US-PATENT-CLASS-156-382	c 52	N84-28389 *
US-PATENT-CLASS-149-108.4	c 28	N80-23471 *	US-PATENT-CLASS-156-18	c 26	N73-26752 *	US-PATENT-CLASS-156-382	c 74	N87-28416 *
US-PATENT-CLASS-149-108.4	c 28	N81-15119 *	US-PATENT-CLASS-156-18	c 74	N75-12732 *	US-PATENT-CLASS-156-391	c 35	N84-12443 *
US-PATENT-CLASS-149-109	c 27	N70-41897 *	US-PATENT-CLASS-156-191	c 52	N84-28389 *	US-PATENT-CLASS-156-3	c 17	N71-16044 *
US-PATENT-CLASS-149-111	c 28	N78-31255 *	US-PATENT-CLASS-156-212	c 03	N71-26726 *	US-PATENT-CLASS-156-3	c 15	N71-21404 *
US-PATENT-CLASS-149-15	c 44	N80-20808 *	US-PATENT-CLASS-156-212	c 24	N80-26388 *	US-PATENT-CLASS-156-3	c 15	N71-24047 *
US-PATENT-CLASS-149-17	c 28	N74-33209 *	US-PATENT-CLASS-156-212	c 27	N81-14077 *			
US-PATENT-CLASS-149-19.2	c 28	N80-28536 *	US-PATENT-CLASS-156-213	c 24	N80-26388 *			

US-PATENT-CLASS-156-3	c 06	N72-21094 *	US-PATENT-CLASS-161-182	c 15	N69-39735 * #	US-PATENT-CLASS-165-1	c 09	N70-41717 *
US-PATENT-CLASS-156-423	c 35	N84-12443 *	US-PATENT-CLASS-161-182	c 37	N74-18126 *	US-PATENT-CLASS-165-1	c 34	N75-12222 *
US-PATENT-CLASS-156-494	c 74	N87-28416 *	US-PATENT-CLASS-161-189	c 23	N71-15978 *	US-PATENT-CLASS-165-1	c 34	N85-29180 *
US-PATENT-CLASS-156-499	c 27	N84-22748 *	US-PATENT-CLASS-161-192	c 37	N74-18126 *	US-PATENT-CLASS-165-1	c 34	N87-22950 *
US-PATENT-CLASS-156-510	c 15	N71-17687 *	US-PATENT-CLASS-161-196	c 37	N74-21063 *	US-PATENT-CLASS-165-20	c 03	N72-28025 *
US-PATENT-CLASS-156-510	c 03	N72-25019 *	US-PATENT-CLASS-161-214	c 06	N73-27980 *	US-PATENT-CLASS-165-2	c 33	N71-24876 *
US-PATENT-CLASS-156-52	c 31	N79-21226 *	US-PATENT-CLASS-161-227	c 06	N73-27980 *	US-PATENT-CLASS-165-2	c 35	N74-15093 *
US-PATENT-CLASS-156-540	c 35	N84-12443 *	US-PATENT-CLASS-161-42	c 37	N74-18126 *	US-PATENT-CLASS-165-2	c 44	N77-32581 *
US-PATENT-CLASS-156-545	c 15	N71-24164 *	US-PATENT-CLASS-161-43	c 37	N74-18126 *	US-PATENT-CLASS-165-2	c 44	N78-17460 *
US-PATENT-CLASS-156-556	c 37	N76-21554 *	US-PATENT-CLASS-161-67	c 33	N72-17947 *	US-PATENT-CLASS-165-2	c 51	N79-10694 *
US-PATENT-CLASS-156-59	c 31	N83-34073 *	US-PATENT-CLASS-161-68	c 18	N71-21651 *	US-PATENT-CLASS-165-2	c 27	N83-36220 *
US-PATENT-CLASS-156-600	c 27	N83-36220 *	US-PATENT-CLASS-161-68	c 18	N72-25540 *	US-PATENT-CLASS-165-30	c 51	N79-10694 *
US-PATENT-CLASS-156-601	c 76	N77-32919 *	US-PATENT-CLASS-161-68	c 18	N72-25541 *	US-PATENT-CLASS-165-30	c 31	N79-17029 *
US-PATENT-CLASS-156-601	c 76	N80-32245 *	US-PATENT-CLASS-161-69	c 33	N71-24858 *	US-PATENT-CLASS-165-30	c 35	N86-20750 *
US-PATENT-CLASS-156-602	c 76	N82-30105 *	US-PATENT-CLASS-161-7	c 18	N72-25540 *	US-PATENT-CLASS-165-32	c 31	N73-30829 *
US-PATENT-CLASS-156-605	c 44	N80-24741 *	US-PATENT-CLASS-161-89	c 17	N72-25541 *	US-PATENT-CLASS-165-32	c 33	N73-32818 *
US-PATENT-CLASS-156-607	c 76	N87-23286 *	US-PATENT-CLASS-161-92	c 37	N71-28747 *	US-PATENT-CLASS-165-32	c 34	N78-17337 *
US-PATENT-CLASS-156-608	c 76	N79-11920 *	US-PATENT-CLASS-161-93	c 37	N75-26371 *	US-PATENT-CLASS-165-32	c 34	N79-31523 *
US-PATENT-CLASS-156-608	c 33	N81-19389 *	US-PATENT-CLASS-161-93	c 37	N74-18126 *	US-PATENT-CLASS-165-32	c 44	N80-20810 *
US-PATENT-CLASS-156-608	c 76	N82-30105 *	US-PATENT-CLASS-161-93	c 37	N75-26371 *	US-PATENT-CLASS-165-32	c 33	N82-24419 *
US-PATENT-CLASS-156-608	c 76	N83-20789 *	US-PATENT-CLASS-162-102	c 24	N76-14204 *	US-PATENT-CLASS-165-32	c 34	N83-28356 *
US-PATENT-CLASS-156-608	c 76	N83-35888 *	US-PATENT-CLASS-162-102	c 24	N79-17747 *	US-PATENT-CLASS-165-32	c 34	N83-35307 *
US-PATENT-CLASS-156-608	c 76	N84-35113 *	US-PATENT-CLASS-162-122	c 24	N76-14204 *	US-PATENT-CLASS-165-32	c 34	N84-14461 *
US-PATENT-CLASS-156-60	c 15	N71-22713 *	US-PATENT-CLASS-162-222	c 24	N76-14204 *	US-PATENT-CLASS-165-32	c 34	N85-29179 *
US-PATENT-CLASS-156-610	c 76	N76-25049 *	US-PATENT-CLASS-162-228	c 24	N76-14204 *	US-PATENT-CLASS-165-32	c 34	N87-22950 *
US-PATENT-CLASS-156-610	c 27	N83-36220 *	US-PATENT-CLASS-162-29	c 85	N79-17747 *	US-PATENT-CLASS-165-32	c 03	N72-28025 *
US-PATENT-CLASS-156-610	c 76	N86-28760 *	US-PATENT-CLASS-164-105	c 20	N79-21123 *	US-PATENT-CLASS-165-41	c 34	N84-14461 *
US-PATENT-CLASS-156-612	c 76	N76-25049 *	US-PATENT-CLASS-164-119	c 24	N84-16282 *	US-PATENT-CLASS-165-46	c 15	N71-26611 *
US-PATENT-CLASS-156-612	c 44	N76-28635 *	US-PATENT-CLASS-164-132	c 27	N76-23570 *	US-PATENT-CLASS-165-46	c 05	N71-19439 *
US-PATENT-CLASS-156-612	c 76	N85-30922 *	US-PATENT-CLASS-164-331.12	c 37	N83-34041 *	US-PATENT-CLASS-165-46	c 05	N71-24147 *
US-PATENT-CLASS-156-613	c 76	N76-25049 *	US-PATENT-CLASS-164-60	c 24	N77-27187 *	US-PATENT-CLASS-165-46	c 05	N73-20137 *
US-PATENT-CLASS-156-613	c 44	N76-28635 *	US-PATENT-CLASS-165-DIG.6	c 34	N84-22903 *	US-PATENT-CLASS-165-46	c 05	N73-26071 *
US-PATENT-CLASS-156-614	c 44	N76-28635 *	US-PATENT-CLASS-165-104.14	c 05	N81-26114 *	US-PATENT-CLASS-165-47	c 54	N82-29002 *
US-PATENT-CLASS-156-617-H	c 76	N87-23286 *	US-PATENT-CLASS-165-104.14	c 34	N85-29179 *	US-PATENT-CLASS-165-47	c 33	N71-29052 *
US-PATENT-CLASS-156-617-SP	c 76	N84-35113 *	US-PATENT-CLASS-165-104.14	c 34	N86-27593 *	US-PATENT-CLASS-165-47	c 31	N73-30829 *
US-PATENT-CLASS-156-617-SP	c 76	N87-23286 *	US-PATENT-CLASS-165-104.14	c 34	N87-22950 *	US-PATENT-CLASS-165-48R	c 34	N75-12222 *
US-PATENT-CLASS-156-617-V	c 76	N84-35113 *	US-PATENT-CLASS-165-104.25	c 34	N87-22950 *	US-PATENT-CLASS-165-58	c 35	N85-29214 *
US-PATENT-CLASS-156-617SP	c 76	N79-11920 *	US-PATENT-CLASS-165-104.26	c 74	N83-19596 *	US-PATENT-CLASS-165-58	c 27	N83-36220 *
US-PATENT-CLASS-156-617SP	c 44	N80-24741 *	US-PATENT-CLASS-165-104.26	c 34	N83-35307 *	US-PATENT-CLASS-165-61	c 34	N83-34221 *
US-PATENT-CLASS-156-617SP	c 76	N80-32245 *	US-PATENT-CLASS-165-104.26	c 34	N85-21568 *	US-PATENT-CLASS-165-61	c 35	N85-29214 *
US-PATENT-CLASS-156-619	c 76	N77-32919 *	US-PATENT-CLASS-165-104.26	c 34	N85-29180 *	US-PATENT-CLASS-165-64	c 35	N86-20750 *
US-PATENT-CLASS-156-620	c 76	N77-32919 *	US-PATENT-CLASS-165-104.26	c 34	N86-27593 *	US-PATENT-CLASS-165-65	c 35	N85-29214 *
US-PATENT-CLASS-156-623Q	c 76	N85-29800 *	US-PATENT-CLASS-165-104	c 34	N87-22950 *	US-PATENT-CLASS-165-65	c 35	N86-20750 *
US-PATENT-CLASS-156-624	c 76	N83-20789 *	US-PATENT-CLASS-165-105	c 09	N71-25533 *	US-PATENT-CLASS-165-76	c 34	N83-28356 *
US-PATENT-CLASS-156-624	c 76	N86-28760 *	US-PATENT-CLASS-165-105	c 33	N71-24807 *	US-PATENT-CLASS-165-76	c 37	N86-32736 *
US-PATENT-CLASS-156-630	c 35	N84-22930 *	US-PATENT-CLASS-165-105	c 33	N71-25533 *	US-PATENT-CLASS-165-80E	c 34	N83-34221 *
US-PATENT-CLASS-156-633	c 44	N78-25529 *	US-PATENT-CLASS-165-105	c 33	N72-17948 *	US-PATENT-CLASS-165-86	c 15	N71-26611 *
US-PATENT-CLASS-156-635	c 76	N83-20789 *	US-PATENT-CLASS-165-105	c 31	N73-30829 *	US-PATENT-CLASS-165-86	c 33	N71-29046 *
US-PATENT-CLASS-156-643	c 52	N84-23095 *	US-PATENT-CLASS-165-105	c 28	N73-32606 *	US-PATENT-CLASS-165-96	c 33	N70-36847 *
US-PATENT-CLASS-156-643	c 31	N87-21160 *	US-PATENT-CLASS-165-105	c 34	N74-18552 *	US-PATENT-CLASS-165-96	c 33	N71-22890 *
US-PATENT-CLASS-156-644	c 52	N84-23095 *	US-PATENT-CLASS-165-105	c 34	N75-12222 *	US-PATENT-CLASS-165-96	c 31	N73-30829 *
US-PATENT-CLASS-156-645	c 27	N77-32308 *	US-PATENT-CLASS-165-105	c 44	N75-32581 *	US-PATENT-CLASS-165-96	c 33	N73-32818 *
US-PATENT-CLASS-156-646	c 31	N87-21160 *	US-PATENT-CLASS-165-105	c 44	N76-16612 *	US-PATENT-CLASS-165-96	c 34	N78-17337 *
US-PATENT-CLASS-156-647	c 33	N81-26360 *	US-PATENT-CLASS-165-105	c 34	N76-17317 *	US-PATENT-CLASS-166-222	c 34	N84-14461 *
US-PATENT-CLASS-156-648	c 33	N81-26360 *	US-PATENT-CLASS-165-105	c 34	N76-27515 *	US-PATENT-CLASS-166-248	c 43	N81-26509 *
US-PATENT-CLASS-156-649	c 33	N81-26360 *	US-PATENT-CLASS-165-105	c 34	N77-32413 *	US-PATENT-CLASS-166-259	c 43	N78-14452 *
US-PATENT-CLASS-156-654	c 76	N83-20789 *	US-PATENT-CLASS-165-105	c 25	N78-10224 *	US-PATENT-CLASS-166-267	c 25	N82-23282 *
US-PATENT-CLASS-156-654	c 35	N84-22930 *	US-PATENT-CLASS-165-105	c 34	N78-17336 *	US-PATENT-CLASS-166-303	c 25	N82-23282 *
US-PATENT-CLASS-156-659.1	c 31	N87-21160 *	US-PATENT-CLASS-165-105	c 34	N78-17337 *	US-PATENT-CLASS-166-63	c 46	N79-22679 *
US-PATENT-CLASS-156-661.1	c 31	N87-21160 *	US-PATENT-CLASS-165-105	c 44	N79-18443 *	US-PATENT-CLASS-166-77	c 43	N81-26509 *
US-PATENT-CLASS-156-662	c 76	N83-20789 *	US-PATENT-CLASS-165-105	c 37	N79-28549 *	US-PATENT-CLASS-169-28	c 12	N72-21310 *
US-PATENT-CLASS-156-662	c 27	N77-32308 *	US-PATENT-CLASS-165-105	c 34	N79-31523 *	US-PATENT-CLASS-169-36	c 12	N72-21310 *
US-PATENT-CLASS-156-668	c 52	N84-23095 *	US-PATENT-CLASS-165-106	c 35	N81-14287 *	US-PATENT-CLASS-169-47	c 25	N83-36118 *
US-PATENT-CLASS-156-66	c 15	N72-11392 *	US-PATENT-CLASS-165-106	c 33	N73-32818 *	US-PATENT-CLASS-169-62	c 31	N81-14137 *
US-PATENT-CLASS-156-71	c 33	N82-26571 *	US-PATENT-CLASS-165-107	c 34	N76-17317 *	US-PATENT-CLASS-169-70	c 31	N81-14137 *
US-PATENT-CLASS-156-71	c 35	N84-12443 *	US-PATENT-CLASS-165-107	c 09	N71-24807 *	US-PATENT-CLASS-173-131	c 15	N73-13463 *
US-PATENT-CLASS-156-74	c 24	N81-29163 *	US-PATENT-CLASS-165-107	c 44	N77-32581 *	US-PATENT-CLASS-173-132	c 37	N76-18454 *
US-PATENT-CLASS-156-7	c 74	N75-12732 *	US-PATENT-CLASS-165-109	c 35	N74-15093 *	US-PATENT-CLASS-174-DIG.6	c 26	N73-26752 *
US-PATENT-CLASS-156-81	c 27	N84-22748 *	US-PATENT-CLASS-165-110	c 44	N76-31667 *	US-PATENT-CLASS-174-DIG.6	c 26	N73-32571 *
US-PATENT-CLASS-156-84	c 15	N72-16330 *	US-PATENT-CLASS-165-111	c 77	N75-20139 *	US-PATENT-CLASS-174-DIG.8	c 33	N74-22865 *
US-PATENT-CLASS-156-84	c 37	N82-24491 *	US-PATENT-CLASS-165-112	c 33	N75-20139 *	US-PATENT-CLASS-174-106R	c 09	N72-22198 *
US-PATENT-CLASS-156-85	c 37	N82-24491 *	US-PATENT-CLASS-165-12	c 34	N71-24276 *	US-PATENT-CLASS-174-110.3	c 14	N71-27186 *
US-PATENT-CLASS-156-86	c 15	N72-16330 *	US-PATENT-CLASS-165-12	c 34	N83-34221 *	US-PATENT-CLASS-174-111	c 33	N74-27683 *
US-PATENT-CLASS-156-86	c 37	N82-24491 *	US-PATENT-CLASS-165-133	c 33	N71-16277 *	US-PATENT-CLASS-174-115	c 09	N70-38201 *
US-PATENT-CLASS-156-87	c 37	N87-23981 *	US-PATENT-CLASS-165-133	c 33	N71-25533 *	US-PATENT-CLASS-174-117FF	c 09	N72-22198 *
US-PATENT-CLASS-156-89	c 37	N75-15992 *	US-PATENT-CLASS-165-133	c 33	N72-20915 *	US-PATENT-CLASS-174-126CP	c 26	N73-32571 *
US-PATENT-CLASS-156-89	c 24	N79-25143 *	US-PATENT-CLASS-165-134R	c 44	N76-23675 *	US-PATENT-CLASS-174-142	c 33	N80-18286 *
US-PATENT-CLASS-156-89	c 27	N84-22748 *	US-PATENT-CLASS-165-134	c 34	N83-19596 *	US-PATENT-CLASS-174-145	c 33	N76-16332 *
US-PATENT-CLASS-156-904	c 31	N87-21160 *	US-PATENT-CLASS-165-138	c 09	N78-17336 *	US-PATENT-CLASS-174-148	c 33	N76-16332 *
US-PATENT-CLASS-156-905	c 35	N84-22930 *	US-PATENT-CLASS-165-141	c 28	N73-32606 *	US-PATENT-CLASS-174-15CA	c 31	N79-17029 *
US-PATENT-CLASS-156-94	c 32	N74-27612 *	US-PATENT-CLASS-165-146	c 34	N79-13289 *	US-PATENT-CLASS-174-15C	c 33	N74-27683 *
US-PATENT-CLASS-156-94	c 24	N74-30001 *	US-PATENT-CLASS-165-155	c 33	N72-20915 *	US-PATENT-CLASS-174-18	c 09	N69-21542 *
US-PATENT-CLASS-156-99	c 37	N75-15992 *	US-PATENT-CLASS-165-158	c 33	N72-20915 *	US-PATENT-CLASS-174-28	c 07	N71-27191 *
US-PATENT-CLASS-16-242	c 31	N86-19479 *	US-PATENT-CLASS-165-161	c 33	N72-20915 *	US-PATENT-CLASS-174-36	c 09	N72-22198 *
US-PATENT-CLASS-16-294	c 37	N86-19605 *	US-PATENT-CLASS-165-164	c 34	N77-10463 *	US-PATENT-CLASS-174-52S	c 15	N73-14469 *
US-PATENT-CLASS-16-294	c 18	N87-14373 *	US-PATENT-CLASS-165-166	c 54	N77-32722 *	US-PATENT-CLASS-174-68.5	c 15	N70-41960 *
US-PATENT-CLASS-16-370	c 18	N87-14373 *	US-PATENT-CLASS-165-169	c 34	N79-13288 *	US-PATENT-CLASS-174-69	c 33	N74-22865 *
US-PATENT-CLASS-16-390	c 31	N86-19479 *	US-PATENT-CLASS-165-169	c 34	N79-13288 *	US-PATENT-CLASS-174-70R	c 33	N74-22865 *
US-PATENT-CLASS-160-23R	c 37	N87-17036 *	US-PATENT-CLASS-165-169	c 31	N80-32583 *	US-PATENT-CLASS-174-72	c 03	N69-21539 *
US-PATENT-CLASS-160-265	c 37	N87-17036 *	US-PATENT-CLASS-165-170	c 34	N77-10463 *	US-PATENT-CLASS-174-73R	c 33	N80-18286 *
US-PATENT-CLASS-161-115	c 18	N70-41583 *	US-PATENT-CLASS-165-174	c 33	N72-20915 *	US-PATENT-CLASS-175-1	c 15	N72-17455 *
US-PATENT-CLASS-161-116	c 37	N74-23064 *	US-PATENT-CLASS-165-185	c 28	N73-32606 *	US-PATENT-CLASS-175-26	c 46	N79-22679 *
US-PATENT-CLASS-161-127	c 18	N72-25540 *	US-PATENT-CLASS-165-185	c 34	N83-28356 *		c 15	N73-32362 *
US-PATENT-CLASS-161-127	c 18	N72-25541 *						
US-PATENT-CLASS-161-161	c 33	N71-25351 *						

US-PATENT-CLASS-175-310	c 15	N70-42034 *	US-PATENT-CLASS-178-6	c 09	N71-19449 *	US-PATENT-CLASS-179-84VF	c 32	N79-23310 *
US-PATENT-CLASS-175-323	c 14	N69-21923 *	US-PATENT-CLASS-178-6	c 07	N71-23026 *	US-PATENT-CLASS-179-91R	c 74	N78-14889 *
US-PATENT-CLASS-175-45	c 35	N84-33768 *	US-PATENT-CLASS-178-6	c 07	N71-26579 *	US-PATENT-CLASS-18-26	c 06	N71-22975 *
US-PATENT-CLASS-175-78	c 46	N80-10709 *	US-PATENT-CLASS-178-6	c 07	N72-12081 *	US-PATENT-CLASS-18-39	c 27	N70-34783 *
US-PATENT-CLASS-176-11	c 24	N72-33681 *	US-PATENT-CLASS-178-6	c 16	N72-13437 *	US-PATENT-CLASS-18-6	c 15	N71-26721 *
US-PATENT-CLASS-176-11	c 25	N76-27383 *	US-PATENT-CLASS-178-6	c 10	N73-13235 *	US-PATENT-CLASS-180-105E	c 11	N72-20244 *
US-PATENT-CLASS-176-11	c 25	N76-29379 *	US-PATENT-CLASS-178-6	c 36	N74-20009 *	US-PATENT-CLASS-180-118	c 31	N71-15689 *
US-PATENT-CLASS-176-11	c 25	N78-27226 *	US-PATENT-CLASS-178-7.1	c 07	N71-24612 *	US-PATENT-CLASS-180-121	c 31	N71-15689 *
US-PATENT-CLASS-176-14	c 25	N76-29379 *	US-PATENT-CLASS-178-7.1	c 07	N71-27341 *	US-PATENT-CLASS-180-125	c 15	N72-17451 *
US-PATENT-CLASS-176-169	c 22	N73-32528 *	US-PATENT-CLASS-178-7.1	c 09	N72-17156 *	US-PATENT-CLASS-180-127	c 15	N72-17451 *
US-PATENT-CLASS-176-16	c 25	N76-27383 *	US-PATENT-CLASS-178-7.1	c 32	N74-19790 *	US-PATENT-CLASS-180-168	c 35	N84-33769 *
US-PATENT-CLASS-176-16	c 25	N76-29379 *	US-PATENT-CLASS-178-7.1	c 36	N75-19652 *	US-PATENT-CLASS-180-19.2	c 85	N87-21755 *
US-PATENT-CLASS-176-16	c 25	N78-27226 *	US-PATENT-CLASS-178-7.2R	c 08	N72-22164 *	US-PATENT-CLASS-180-305	c 85	N87-21755 *
US-PATENT-CLASS-176-22	c 73	N78-28913 *	US-PATENT-CLASS-178-7.2	c 14	N70-41807 *	US-PATENT-CLASS-180-41	c 11	N73-26238 *
US-PATENT-CLASS-176-33	c 73	N78-28913 *	US-PATENT-CLASS-178-7.2	c 71	N74-21014 *	US-PATENT-CLASS-180-6.5	c 11	N73-26238 *
US-PATENT-CLASS-176-39	c 73	N78-19920 *	US-PATENT-CLASS-178-7.2	c 35	N75-25123 *	US-PATENT-CLASS-180-7R	c 11	N73-26238 *
US-PATENT-CLASS-176-39	c 73	N78-28913 *	US-PATENT-CLASS-178-7.3	c 07	N71-27341 *	US-PATENT-CLASS-180-79.3	c 37	N74-18125 *
US-PATENT-CLASS-176-3	c 75	N75-13625 *	US-PATENT-CLASS-178-7.3	c 07	N72-12081 *	US-PATENT-CLASS-180-8A	c 11	N73-26238 *
US-PATENT-CLASS-176-45	c 22	N71-28759 *	US-PATENT-CLASS-178-7.5E	c 10	N72-31273 *	US-PATENT-CLASS-180-9.2R	c 11	N73-26238 *
US-PATENT-CLASS-176-86G	c 22	N72-20597 *	US-PATENT-CLASS-178-7.6	c 36	N74-20009 *	US-PATENT-CLASS-180-9.5	c 11	N73-26238 *
US-PATENT-CLASS-177-147	c 35	N85-20294 *	US-PATENT-CLASS-178-7.7	c 09	N71-12539 *	US-PATENT-CLASS-181.5R	c 71	N74-31148 *
US-PATENT-CLASS-177-1	c 35	N77-19385 *	US-PATENT-CLASS-178-7.7	c 32	N74-20813 *	US-PATENT-CLASS-181-5	c 11	N71-28779 *
US-PATENT-CLASS-177-200	c 35	N74-26945 *	US-PATENT-CLASS-178-7.89	c 09	N76-24280 *	US-PATENT-CLASS-181-0.5	c 71	N85-30765 *
US-PATENT-CLASS-177-208	c 35	N77-19385 *	US-PATENT-CLASS-178-7.92	c 14	N72-25414 *	US-PATENT-CLASS-181-102	c 39	N80-10507 *
US-PATENT-CLASS-177-210	c 14	N71-10773 *	US-PATENT-CLASS-178-79	c 32	N75-21486 *	US-PATENT-CLASS-181-102	c 31	N80-32584 *
US-PATENT-CLASS-177-211	c 35	N74-26945 *	US-PATENT-CLASS-178-88	c 07	N71-12392 *	US-PATENT-CLASS-181-105	c 39	N80-10507 *
US-PATENT-CLASS-177-246	c 35	N74-26945 *	US-PATENT-CLASS-178-88	c 33	N74-12887 *	US-PATENT-CLASS-181-106	c 46	N79-22679 *
US-PATENT-CLASS-177-260	c 35	N85-20294 *	US-PATENT-CLASS-178-88	c 32	N74-20809 *	US-PATENT-CLASS-181-115	c 46	N79-23555 *
US-PATENT-CLASS-178-DIG.12	c 07	N72-12081 *	US-PATENT-CLASS-178-88	c 33	N74-27705 *	US-PATENT-CLASS-181-117	c 46	N79-22679 *
US-PATENT-CLASS-178-DIG.12	c 32	N75-21485 *	US-PATENT-CLASS-178-88	c 33	N76-14371 *	US-PATENT-CLASS-181-120	c 46	N79-23555 *
US-PATENT-CLASS-178-DIG.1	c 36	N74-20009 *	US-PATENT-CLASS-178-88	c 32	N76-16249 *	US-PATENT-CLASS-181-121	c 35	N84-22933 *
US-PATENT-CLASS-178-DIG.1	c 33	N75-30431 *	US-PATENT-CLASS-178-88	c 32	N77-10392 *	US-PATENT-CLASS-181-148	c 71	N79-23753 *
US-PATENT-CLASS-178-DIG.1	c 45	N76-17656 *	US-PATENT-CLASS-178-88	c 32	N77-24331 *	US-PATENT-CLASS-181-190	c 71	N79-14871 *
US-PATENT-CLASS-178-DIG.20	c 18	N76-14186 *	US-PATENT-CLASS-179-10DM	c 71	N79-23753 *	US-PATENT-CLASS-181-213	c 71	N79-14871 *
US-PATENT-CLASS-178-DIG.20	c 23	N72-27728 *	US-PATENT-CLASS-179-1MF	c 71	N79-23753 *	US-PATENT-CLASS-181-213	c 07	N83-33884 *
US-PATENT-CLASS-178-DIG.20	c 35	N75-19613 *	US-PATENT-CLASS-179-1MN	c 32	N79-23310 *	US-PATENT-CLASS-181-214	c 07	N81-14999 *
US-PATENT-CLASS-178-DIG.21	c 16	N72-13437 *	US-PATENT-CLASS-179-1P	c 10	N73-12244 *	US-PATENT-CLASS-181-214	c 71	N82-16800 *
US-PATENT-CLASS-178-DIG.23	c 07	N73-30115 *	US-PATENT-CLASS-179-1R	c 10	N71-33108 *	US-PATENT-CLASS-181-222	c 71	N79-14871 *
US-PATENT-CLASS-178-DIG.25	c 74	N75-25706 *	US-PATENT-CLASS-179-1SA	c 07	N73-25240 *	US-PATENT-CLASS-181-293	c 71	N79-14871 *
US-PATENT-CLASS-178-DIG.28	c 08	N72-22164 *	US-PATENT-CLASS-179-1SA	c 32	N76-31372 *	US-PATENT-CLASS-181-33C	c 07	N74-32418 *
US-PATENT-CLASS-178-DIG.29	c 35	N75-25123 *	US-PATENT-CLASS-179-1SA	c 32	N77-30309 *	US-PATENT-CLASS-181-33F	c 07	N74-32418 *
US-PATENT-CLASS-178-DIG.32	c 71	N74-21014 *	US-PATENT-CLASS-179-1SP	c 32	N77-30309 *	US-PATENT-CLASS-181-33HB	c 07	N74-27490 *
US-PATENT-CLASS-178-DIG.35	c 09	N76-24280 *	US-PATENT-CLASS-179-1VC	c 07	N71-33108 *	US-PATENT-CLASS-181-33HC	c 07	N74-33218 *
US-PATENT-CLASS-178-DIG.36	c 08	N72-22164 *	US-PATENT-CLASS-179-100.2A	c 21	N73-13644 *	US-PATENT-CLASS-181-33HC	c 07	N76-18117 *
US-PATENT-CLASS-178-DIG.6	c 10	N73-13235 *	US-PATENT-CLASS-179-100.2A	c 32	N74-27612 *	US-PATENT-CLASS-181-33H	c 07	N74-32418 *
US-PATENT-CLASS-178-DIG.8	c 14	N72-25412 *	US-PATENT-CLASS-179-100.2B	c 32	N74-27612 *	US-PATENT-CLASS-181-33L	c 07	N74-32418 *
US-PATENT-CLASS-178-DIG.8	c 45	N76-17656 *	US-PATENT-CLASS-179-100.2CH	c 36	N74-13205 *	US-PATENT-CLASS-181-42	c 07	N74-32418 *
US-PATENT-CLASS-178-15	c 33	N75-19517 *	US-PATENT-CLASS-179-100.2CH	c 35	N78-29421 *	US-PATENT-CLASS-181-43	c 07	N74-15453 *
US-PATENT-CLASS-178-18	c 10	N73-32143 *	US-PATENT-CLASS-179-100.2CH	c 35	N79-16246 *	US-PATENT-CLASS-181-52	c 28	N70-41582 *
US-PATENT-CLASS-178-22.16	c 32	N82-31583 *	US-PATENT-CLASS-179-100.2C	c 35	N77-21392 *	US-PATENT-CLASS-182-10	c 15	N71-27067 *
US-PATENT-CLASS-178-22.17	c 32	N82-31583 *	US-PATENT-CLASS-179-100.2K	c 07	N72-21119 *	US-PATENT-CLASS-182-152	c 31	N87-25492 *
US-PATENT-CLASS-178-5.2R	c 09	N71-28618 *	US-PATENT-CLASS-179-100.2MD	c 35	N74-11283 *	US-PATENT-CLASS-182-178	c 39	N76-31562 *
US-PATENT-CLASS-178-5.2R	c 07	N72-17109 *	US-PATENT-CLASS-179-100.2T	c 35	N74-11283 *	US-PATENT-CLASS-182-191	c 05	N71-11199 *
US-PATENT-CLASS-178-5.4	c 07	N72-17109 *	US-PATENT-CLASS-179-100.2	c 09	N69-24329 *	US-PATENT-CLASS-182-223	c 54	N87-29118 *
US-PATENT-CLASS-178-5.8R	c 71	N74-21014 *	US-PATENT-CLASS-179-100.2	c 09	N71-25866 *	US-PATENT-CLASS-182-5	c 15	N73-25512 *
US-PATENT-CLASS-178-50	c 08	N72-18184 *	US-PATENT-CLASS-179-100.2	c 08	N71-27210 *	US-PATENT-CLASS-182-62.5	c 31	N81-27324 *
US-PATENT-CLASS-178-50	c 08	N72-25208 *	US-PATENT-CLASS-179-100.2	c 08	N71-27255 *	US-PATENT-CLASS-182-63	c 54	N87-29118 *
US-PATENT-CLASS-178-52	c 08	N72-22162 *	US-PATENT-CLASS-179-100.2CA	c 09	N72-11224 *	US-PATENT-CLASS-182-82	c 54	N87-29118 *
US-PATENT-CLASS-178-54CF	c 09	N71-28618 *	US-PATENT-CLASS-179-100.2MD	c 09	N72-11224 *	US-PATENT-CLASS-184-1	c 15	N71-23048 *
US-PATENT-CLASS-178-54PE	c 09	N71-28618 *	US-PATENT-CLASS-179-107R	c 33	N78-10375 *	US-PATENT-CLASS-184-1B	c 37	N78-16369 *
US-PATENT-CLASS-178-58A	c 32	N75-21486 *	US-PATENT-CLASS-179-15.5SR	c 08	N72-11171 *	US-PATENT-CLASS-185-38	c 15	N72-25453 *
US-PATENT-CLASS-178-58R	c 32	N80-18252 *	US-PATENT-CLASS-179-15.5SR	c 08	N72-11171 *	US-PATENT-CLASS-187-1	c 15	N72-25453 *
US-PATENT-CLASS-178-6.5	c 23	N72-27728 *	US-PATENT-CLASS-179-15AN	c 07	N73-16121 *	US-PATENT-CLASS-187-20	c 07	N71-24742 *
US-PATENT-CLASS-178-6.6DD	c 07	N73-30115 *	US-PATENT-CLASS-179-15AT	c 32	N74-30524 *	US-PATENT-CLASS-187-7.1	c 15	N72-25453 *
US-PATENT-CLASS-178-6.6DD	c 35	N74-11283 *	US-PATENT-CLASS-179-15A	c 08	N72-21622 *	US-PATENT-CLASS-187-95	c 15	N72-25453 *
US-PATENT-CLASS-178-6.6	c 07	N71-11300 *	US-PATENT-CLASS-179-15A	c 07	N73-26118 *	US-PATENT-CLASS-188-1B	c 15	N72-20443 *
US-PATENT-CLASS-178-6.6	c 07	N71-26102 *	US-PATENT-CLASS-179-15BA	c 60	N77-12721 *	US-PATENT-CLASS-188-1B	c 19	N76-22284 *
US-PATENT-CLASS-178-6.7R	c 35	N74-15831 *	US-PATENT-CLASS-179-15BA	c 32	N80-18252 *	US-PATENT-CLASS-188-1C	c 15	N72-17450 *
US-PATENT-CLASS-178-6.7	c 07	N72-17109 *	US-PATENT-CLASS-179-15BC	c 08	N72-25208 *	US-PATENT-CLASS-188-1C	c 15	N72-20443 *
US-PATENT-CLASS-178-6.8	c 08	N72-22164 *	US-PATENT-CLASS-179-15BC	c 07	N73-16121 *	US-PATENT-CLASS-188-1C	c 15	N73-30460 *
US-PATENT-CLASS-178-6.8	c 14	N72-25412 *	US-PATENT-CLASS-179-15BC	c 32	N74-30523 *	US-PATENT-CLASS-188-1C	c 11	N73-32152 *
US-PATENT-CLASS-178-6.8	c 07	N73-30115 *	US-PATENT-CLASS-179-15BC	c 33	N75-26243 *	US-PATENT-CLASS-188-1C	c 37	N79-10420 *
US-PATENT-CLASS-178-6.8	c 33	N75-30431 *	US-PATENT-CLASS-179-15BL	c 08	N72-21622 *	US-PATENT-CLASS-188-103	c 15	N71-27146 *
US-PATENT-CLASS-178-6.8	c 45	N76-17656 *	US-PATENT-CLASS-179-15BM	c 07	N73-26118 *	US-PATENT-CLASS-188-129	c 15	N72-17450 *
US-PATENT-CLASS-178-66R	c 32	N75-24981 *	US-PATENT-CLASS-179-15BS	c 10	N71-33407 *	US-PATENT-CLASS-188-134	c 37	N81-15364 *
US-PATENT-CLASS-178-66	c 09	N71-25866 *	US-PATENT-CLASS-179-15BS	c 07	N72-20140 *	US-PATENT-CLASS-188-151A	c 44	N79-14527 *
US-PATENT-CLASS-178-66	c 08	N72-18184 *	US-PATENT-CLASS-179-15BS	c 07	N73-30115 *	US-PATENT-CLASS-188-163	c 37	N74-26976 *
US-PATENT-CLASS-178-67	c 08	N70-41961 *	US-PATENT-CLASS-179-15BS	c 32	N75-26195 *	US-PATENT-CLASS-188-171	c 37	N74-26976 *
US-PATENT-CLASS-178-67	c 32	N74-26654 *	US-PATENT-CLASS-179-15BS	c 60	N77-19760 *	US-PATENT-CLASS-188-180	c 37	N81-15364 *
US-PATENT-CLASS-178-69.1	c 32	N78-15323 *	US-PATENT-CLASS-179-15BV	c 07	N72-25172 *	US-PATENT-CLASS-188-184	c 15	N70-34861 *
US-PATENT-CLASS-178-69.4R	c 32	N74-10132 *	US-PATENT-CLASS-179-15BY	c 32	N74-30524 *	US-PATENT-CLASS-188-1	c 15	N70-38601 *
US-PATENT-CLASS-178-69.5R	c 07	N72-20140 *	US-PATENT-CLASS-179-15FD	c 08	N72-25208 *	US-PATENT-CLASS-188-1	c 15	N70-40354 *
US-PATENT-CLASS-178-69.5R	c 32	N75-26195 *	US-PATENT-CLASS-179-15FS	c 07	N73-28012 *	US-PATENT-CLASS-188-1	c 14	N71-17626 *
US-PATENT-CLASS-178-69.5R	c 33	N76-14371 *	US-PATENT-CLASS-179-15	c 07	N69-39978 *	US-PATENT-CLASS-188-1	c 15	N71-22877 *
US-PATENT-CLASS-178-69.5R	c 60	N77-19760 *	US-PATENT-CLASS-179-15	c 07	N71-20814 *	US-PATENT-CLASS-188-1	c 14	N71-23092 *
US-PATENT-CLASS-178-69.5	c 07	N71-11281 *	US-PATENT-CLASS-179-15	c 07	N71-24621 *	US-PATENT-CLASS-188-1	c 15	N71-26243 *
US-PATENT-CLASS-178-69.5	c 10	N71-19468 *	US-PATENT-CLASS-179-15	c 07	N71-24622 *	US-PATENT-CLASS-188-1	c 15	N71-27146 *
US-PATENT-CLASS-178-69.5	c 10	N71-25865 *	US-PATENT-CLASS-179-15	c 08	N72-18184 *	US-PATENT-CLASS-188-1	c 15	N71-27169 *
US-PATENT-CLASS-178-69.5	c 10	N71-33407 *	US-PATENT-CLASS-179-175.1A	c 14	N73-27379 *	US-PATENT-CLASS-188-266	c 15	N73-25513 *
US-PATENT-CLASS-178-69.5	c 07	N72-25173 *	US-PATENT-CLASS-179-175.1A	c 33	N78-10375 *	US-PATENT-CLASS-188-268	c 15	N72-20443 *
US-PATENT-CLASS-178-69.5	c 07	N73-13149 *	US-PATENT-CLASS-179-18BC	c 32	N86-27513 *	US-PATENT-CLASS-188-269	c 44	N79-14527 *
US-PATENT-CLASS-178-69.5	c 09	N73-28084 *	US-PATENT-CLASS-179-18GF	c 33	N82-29538 *	US-PATENT-CLASS-188-291	c 54	N77-21844 *
US-PATENT-CLASS-178-69.5	c 17	N76-22245 *	US-PATENT-CLASS-179-1	c 07	N71-26181 *	US-PATENT-CLASS-188-371	c 37	N82-18601 *
US-PATENT-CLASS-178-69A	c 35	N75-21582 *	US-PATENT-CLASS-179-1	c 31	N71-33160 *	US-PATENT-CLASS-188-65.1	c 15	N73-25512 *
US-PATENT-CLASS-178-69C	c 32	N76-16249 *	US-PATENT-CLASS-179-27CA	c 32	N79-23310 *	US-PATENT-CLASS-188-65.5	c 15	N71-27067 *
US-PATENT-CLASS-178-6	c 07	N71-19433 *	US-PATENT-CLASS-179-78	c 33	N81-27397 *	US-PATENT-CLASS-188-87	c 12	N71-16894 *

US-PATENT-CLASS-188-88	c 15	N71-26611 *	US-PATENT-CLASS-200-61.45	c 14	N70-41812 *	US-PATENT-CLASS-204-192SP	c 31	N85-20153 *
US-PATENT-CLASS-189-36	c 15	N70-36947 *	US-PATENT-CLASS-200-61	c 74	N79-12890 *	US-PATENT-CLASS-204-192	c 15	N73-12487 *
US-PATENT-CLASS-19-205	c 37	N76-18456 *	US-PATENT-CLASS-200-64	c 15	N72-17455 *	US-PATENT-CLASS-204-192	c 17	N73-24569 *
US-PATENT-CLASS-191-12.2-R	c 33	N86-20669 *	US-PATENT-CLASS-200-6	c 10	N71-15909 *	US-PATENT-CLASS-204-192	c 27	N74-13270 *
US-PATENT-CLASS-192-43.1	c 15	N71-17805 *	US-PATENT-CLASS-200-6	c 09	N71-16089 *	US-PATENT-CLASS-204-192	c 20	N74-31269 *
US-PATENT-CLASS-192-46	c 37	N87-17037 *	US-PATENT-CLASS-200-81.9M	c 09	N72-20199 *	US-PATENT-CLASS-204-192	c 37	N75-19684 *
US-PATENT-CLASS-192-67R	c 37	N87-17037 *	US-PATENT-CLASS-200-81R	c 09	N72-22204 *	US-PATENT-CLASS-204-192	c 44	N77-14580 *
US-PATENT-CLASS-195-1.8	c 51	N77-25769 *	US-PATENT-CLASS-200-82C	c 09	N72-22204 *	US-PATENT-CLASS-204-195B	c 25	N79-24073 *
US-PATENT-CLASS-195-1.8	c 51	N79-10694 *	US-PATENT-CLASS-200-82	c 10	N71-23663 *	US-PATENT-CLASS-204-195B	c 51	N80-27067 *
US-PATENT-CLASS-195-1.8	c 52	N79-14749 *	US-PATENT-CLASS-200-83N	c 35	N75-15931 *	US-PATENT-CLASS-204-195B	c 51	N81-28698 *
US-PATENT-CLASS-195-103.5K	c 51	N77-22794 *	US-PATENT-CLASS-200-83	c 33	N79-33392 *	US-PATENT-CLASS-204-195B	c 35	N82-28604 *
US-PATENT-CLASS-195-103.5K	c 52	N79-14750 *	US-PATENT-CLASS-201-10	c 27	N81-17261 *	US-PATENT-CLASS-204-195R	c 33	N76-19339 *
US-PATENT-CLASS-195-103.5L	c 52	N79-14750 *	US-PATENT-CLASS-201-17	c 44	N78-31527 *	US-PATENT-CLASS-204-195S	c 25	N82-12166 *
US-PATENT-CLASS-195-103.5R	c 06	N72-25149 *	US-PATENT-CLASS-201-17	c 25	N81-33246 *	US-PATENT-CLASS-204-195W	c 35	N78-25391 *
US-PATENT-CLASS-195-103.5R	c 25	N75-12086 *	US-PATENT-CLASS-201-17	c 25	N82-29371 *	US-PATENT-CLASS-204-195	c 14	N71-17575 *
US-PATENT-CLASS-195-103.5R	c 35	N75-27330 *	US-PATENT-CLASS-201-17	c 25	N83-31743 *	US-PATENT-CLASS-204-2.1	c 44	N81-29524 *
US-PATENT-CLASS-195-103.5R	c 35	N75-33368 *	US-PATENT-CLASS-201-17	c 25	N85-35253 *	US-PATENT-CLASS-204-20	c 18	N71-16210 *
US-PATENT-CLASS-195-103.5R	c 51	N76-29891 *	US-PATENT-CLASS-201-25	c 27	N81-17261 *	US-PATENT-CLASS-204-222	c 31	N74-23065 *
US-PATENT-CLASS-195-103.5R	c 51	N77-22794 *	US-PATENT-CLASS-201-8	c 27	N81-17261 *	US-PATENT-CLASS-204-224	c 37	N80-14395 *
US-PATENT-CLASS-195-103.5R	c 25	N79-22235 *	US-PATENT-CLASS-202-118	c 31	N81-15154 *	US-PATENT-CLASS-204-242	c 33	N75-27252 *
US-PATENT-CLASS-195-120	c 51	N75-13502 *	US-PATENT-CLASS-202-182	c 05	N71-11207 *	US-PATENT-CLASS-204-242	c 25	N84-12262 *
US-PATENT-CLASS-195-120	c 35	N75-27330 *	US-PATENT-CLASS-202-234	c 15	N71-23086 *	US-PATENT-CLASS-204-252	c 28	N81-24280 *
US-PATENT-CLASS-195-127	c 15	N72-21465 *	US-PATENT-CLASS-203-12	c 25	N82-28368 *	US-PATENT-CLASS-204-263	c 14	N71-28933 *
US-PATENT-CLASS-195-127	c 11	N72-25284 *	US-PATENT-CLASS-204-DIG.11	c 25	N77-32255 *	US-PATENT-CLASS-204-263	c 25	N82-12166 *
US-PATENT-CLASS-195-127	c 14	N72-25413 *	US-PATENT-CLASS-204-DIG.3	c 25	N84-12262 *	US-PATENT-CLASS-204-264	c 25	N82-12166 *
US-PATENT-CLASS-195-127	c 15	N73-20514 *	US-PATENT-CLASS-204-DIG.3	c 44	N84-23019 *	US-PATENT-CLASS-204-266	c 28	N81-24280 *
US-PATENT-CLASS-195-127	c 05	N73-32011 *	US-PATENT-CLASS-204-1T	c 25	N79-22235 *	US-PATENT-CLASS-204-266	c 25	N82-12166 *
US-PATENT-CLASS-195-127	c 35	N75-12272 *	US-PATENT-CLASS-204-1T	c 51	N81-28698 *	US-PATENT-CLASS-204-267	c 33	N75-27252 *
US-PATENT-CLASS-195-127	c 51	N75-13502 *	US-PATENT-CLASS-204-1T	c 25	N82-12166 *	US-PATENT-CLASS-204-275	c 25	N82-12166 *
US-PATENT-CLASS-195-127	c 35	N75-27330 *	US-PATENT-CLASS-204-1T	c 76	N84-35112 *	US-PATENT-CLASS-204-276	c 25	N82-12166 *
US-PATENT-CLASS-195-127	c 25	N79-22235 *	US-PATENT-CLASS-204-1T	c 35	N85-29212 *	US-PATENT-CLASS-204-278	c 25	N82-12166 *
US-PATENT-CLASS-195-127	c 25	N79-24073 *	US-PATENT-CLASS-204-1T	c 76	N85-30923 *	US-PATENT-CLASS-204-278	c 25	N84-12262 *
US-PATENT-CLASS-195-141	c 35	N75-27330 *	US-PATENT-CLASS-204-129.55	c 31	N83-19947 *	US-PATENT-CLASS-204-278	c 44	N84-23019 *
US-PATENT-CLASS-195-28N	c 06	N72-25149 *	US-PATENT-CLASS-204-129.75	c 31	N83-19947 *	US-PATENT-CLASS-204-279	c 33	N75-27252 *
US-PATENT-CLASS-195-66R	c 06	N73-27086 *	US-PATENT-CLASS-204-129	c 28	N81-24280 *	US-PATENT-CLASS-204-280R	c 25	N83-13187 *
US-PATENT-CLASS-195-68	c 04	N69-27487 *	US-PATENT-CLASS-204-129	c 25	N84-12262 *	US-PATENT-CLASS-204-280	c 44	N84-23019 *
US-PATENT-CLASS-195-99	c 06	N71-17705 *	US-PATENT-CLASS-204-129	c 44	N84-23019 *	US-PATENT-CLASS-204-286	c 33	N75-27252 *
US-PATENT-CLASS-197-188	c 37	N77-19457 *	US-PATENT-CLASS-204-130	c 15	N72-21466 *	US-PATENT-CLASS-204-290F	c 28	N81-24280 *
US-PATENT-CLASS-197-190	c 37	N77-19457 *	US-PATENT-CLASS-204-157.1H	c 25	N74-30502 *	US-PATENT-CLASS-204-290F	c 44	N82-29710 *
US-PATENT-CLASS-198-847	c 37	N80-32717 *	US-PATENT-CLASS-204-157.1H	c 37	N76-18458 *	US-PATENT-CLASS-204-290R	c 33	N75-27252 *
US-PATENT-CLASS-198-848	c 37	N80-32717 *	US-PATENT-CLASS-204-157.1R	c 25	N77-32255 *	US-PATENT-CLASS-204-290R	c 28	N81-24280 *
US-PATENT-CLASS-1	c 14	N71-27005 *	US-PATENT-CLASS-204-157.1R	c 44	N77-32580 *	US-PATENT-CLASS-204-290R	c 44	N82-29710 *
US-PATENT-CLASS-2-115	c 05	N72-25119 *	US-PATENT-CLASS-204-157.1R	c 44	N79-11470 *	US-PATENT-CLASS-204-290R	c 25	N84-12262 *
US-PATENT-CLASS-2-14	c 05	N71-23096 *	US-PATENT-CLASS-204-157.18AG	c 15	N72-25452 *	US-PATENT-CLASS-204-290	c 44	N84-28205 *
US-PATENT-CLASS-2-161R	c 54	N84-23113 *	US-PATENT-CLASS-204-158R	c 25	N77-32255 *	US-PATENT-CLASS-204-291	c 28	N81-24280 *
US-PATENT-CLASS-2-161R	c 54	N84-28484 *	US-PATENT-CLASS-204-159.11	c 27	N80-32516 *	US-PATENT-CLASS-204-292	c 25	N78-10225 *
US-PATENT-CLASS-2-161	c 54	N78-17677 *	US-PATENT-CLASS-204-159.14	c 27	N80-32516 *	US-PATENT-CLASS-204-298	c 15	N70-34967 *
US-PATENT-CLASS-2-164	c 54	N84-28484 *	US-PATENT-CLASS-204-159.15	c 27	N80-26446 *	US-PATENT-CLASS-204-298	c 09	N71-26701 *
US-PATENT-CLASS-2-167	c 54	N84-23113 *	US-PATENT-CLASS-204-159.19	c 27	N80-26446 *	US-PATENT-CLASS-204-298	c 15	N72-32487 *
US-PATENT-CLASS-2-167	c 54	N84-28484 *	US-PATENT-CLASS-204-162R	c 25	N77-32255 *	US-PATENT-CLASS-204-298	c 37	N75-19684 *
US-PATENT-CLASS-2-2.1A	c 05	N72-22092 *	US-PATENT-CLASS-204-164	c 26	N78-32229 *	US-PATENT-CLASS-204-298	c 27	N86-32569 *
US-PATENT-CLASS-2-2.1A	c 05	N73-25125 *	US-PATENT-CLASS-204-168	c 24	N71-25555 *	US-PATENT-CLASS-204-298	c 31	N86-32587 *
US-PATENT-CLASS-2-2.1A	c 05	N73-32012 *	US-PATENT-CLASS-204-16	c 24	N77-19171 *	US-PATENT-CLASS-204-298	c 31	N87-21160 *
US-PATENT-CLASS-2-2.1A	c 54	N74-32546 *	US-PATENT-CLASS-204-171	c 27	N80-23452 *	US-PATENT-CLASS-204-299R	c 25	N78-14104 *
US-PATENT-CLASS-2-2.1A	c 54	N77-32721 *	US-PATENT-CLASS-204-175	c 26	N78-32229 *	US-PATENT-CLASS-204-299R	c 25	N79-14169 *
US-PATENT-CLASS-2-2.1A	c 54	N78-17675 *	US-PATENT-CLASS-204-177	c 25	N75-12087 *	US-PATENT-CLASS-204-299R	c 37	N80-14397 *
US-PATENT-CLASS-2-2.1A	c 54	N78-31735 *	US-PATENT-CLASS-204-180G	c 25	N78-14104 *	US-PATENT-CLASS-204-299R	c 51	N80-16715 *
US-PATENT-CLASS-2-2.1A	c 54	N78-31736 *	US-PATENT-CLASS-204-180G	c 25	N79-14169 *	US-PATENT-CLASS-204-299R	c 25	N83-10126 *
US-PATENT-CLASS-2-2.1A	c 54	N79-24651 *	US-PATENT-CLASS-204-180G	c 37	N80-14397 *	US-PATENT-CLASS-204-299R	c 25	N83-13187 *
US-PATENT-CLASS-2-2.1A	c 54	N86-28618 *	US-PATENT-CLASS-204-180P	c 54	N78-14784 *	US-PATENT-CLASS-204-299	c 34	N74-27744 *
US-PATENT-CLASS-2-2.1A	c 54	N86-28619 *	US-PATENT-CLASS-204-180R	c 25	N74-26948 *	US-PATENT-CLASS-204-299	c 25	N79-10163 *
US-PATENT-CLASS-2-2.1A	c 54	N86-28620 *	US-PATENT-CLASS-204-180R	c 34	N74-27744 *	US-PATENT-CLASS-204-301	c 54	N78-14784 *
US-PATENT-CLASS-2-2.1A	c 54	N86-29507 *	US-PATENT-CLASS-204-180R	c 51	N80-16715 *	US-PATENT-CLASS-204-305	c 03	N71-24718 *
US-PATENT-CLASS-2-2.1R	c 54	N86-28618 *	US-PATENT-CLASS-204-180S	c 25	N79-10163 *	US-PATENT-CLASS-204-30	c 09	N71-28691 *
US-PATENT-CLASS-2-2.1R	c 54	N86-28619 *	US-PATENT-CLASS-204-180S	c 25	N79-14169 *	US-PATENT-CLASS-204-32A	c 33	N77-26385 *
US-PATENT-CLASS-2-2.1	c 05	N71-11194 *	US-PATENT-CLASS-204-192.15	c 26	N87-25455 *	US-PATENT-CLASS-204-32R	c 44	N76-14595 *
US-PATENT-CLASS-2-2.1	c 05	N71-11195 *	US-PATENT-CLASS-204-192.23	c 26	N87-25455 *	US-PATENT-CLASS-204-324	c 33	N73-16918 *
US-PATENT-CLASS-2-2.1	c 05	N71-12335 *	US-PATENT-CLASS-204-192-C	c 27	N86-19458 *	US-PATENT-CLASS-204-325	c 33	N73-16918 *
US-PATENT-CLASS-2-2.1	c 05	N71-12344 *	US-PATENT-CLASS-204-192-D	c 27	N86-19458 *	US-PATENT-CLASS-204-328	c 33	N73-16918 *
US-PATENT-CLASS-2-2.1	c 05	N71-23161 *	US-PATENT-CLASS-204-192-R	c 27	N86-19458 *	US-PATENT-CLASS-204-32	c 44	N79-11469 *
US-PATENT-CLASS-2-2.1	c 05	N71-24623 *	US-PATENT-CLASS-204-192C	c 76	N79-14906 *	US-PATENT-CLASS-204-33	c 17	N71-25903 *
US-PATENT-CLASS-2-2.1	c 05	N71-24730 *	US-PATENT-CLASS-204-192C	c 26	N82-29415 *	US-PATENT-CLASS-204-33	c 44	N76-14595 *
US-PATENT-CLASS-2-2.1	c 05	N72-20096 *	US-PATENT-CLASS-204-192C	c 26	N82-30371 *	US-PATENT-CLASS-204-33	c 44	N79-11469 *
US-PATENT-CLASS-2-2.1	c 05	N72-20098 *	US-PATENT-CLASS-204-192C	c 24	N84-22695 *	US-PATENT-CLASS-204-33	c 44	N83-34449 *
US-PATENT-CLASS-2-2.1	c 05	N72-25119 *	US-PATENT-CLASS-204-192C	c 31	N85-20153 *	US-PATENT-CLASS-204-35N	c 27	N83-29388 *
US-PATENT-CLASS-2-2.1	c 05	N73-26071 *	US-PATENT-CLASS-204-192C	c 24	N85-21267 *	US-PATENT-CLASS-204-35N	c 44	N83-34449 *
US-PATENT-CLASS-2-2.1	c 34	N78-17337 *	US-PATENT-CLASS-204-192C	c 76	N85-33826 *	US-PATENT-CLASS-204-37.6	c 76	N84-35112 *
US-PATENT-CLASS-2-2.1	c 54	N78-17678 *	US-PATENT-CLASS-204-192C	c 27	N86-32569 *	US-PATENT-CLASS-204-37R	c 44	N79-11469 *
US-PATENT-CLASS-2-2.1	c 54	N78-18761 *	US-PATENT-CLASS-204-192C	c 31	N86-32587 *	US-PATENT-CLASS-204-37R	c 27	N83-29388 *
US-PATENT-CLASS-2-275	c 18	N71-26285 *	US-PATENT-CLASS-204-192D	c 27	N86-32569 *	US-PATENT-CLASS-204-37	c 33	N71-29151 *
US-PATENT-CLASS-2-6	c 05	N71-26333 *	US-PATENT-CLASS-204-192D	c 31	N86-32587 *	US-PATENT-CLASS-204-38A	c 44	N76-14595 *
US-PATENT-CLASS-2-6	c 54	N78-17680 *	US-PATENT-CLASS-204-192EC	c 27	N82-28440 *	US-PATENT-CLASS-204-38B	c 44	N79-11469 *
US-PATENT-CLASS-2-81	c 18	N71-26285 *	US-PATENT-CLASS-204-192EC	c 27	N82-33521 *	US-PATENT-CLASS-204-38B	c 27	N82-33521 *
US-PATENT-CLASS-2-81	c 05	N73-32012 *	US-PATENT-CLASS-204-192EC	c 33	N84-22884 *	US-PATENT-CLASS-204-38	c 17	N71-24830 *
US-PATENT-CLASS-2-82	c 54	N74-32546 *	US-PATENT-CLASS-204-192E	c 37	N81-19455 *	US-PATENT-CLASS-204-40	c 44	N76-14595 *
US-PATENT-CLASS-200-114	c 33	N79-33393 *	US-PATENT-CLASS-204-192E	c 27	N82-28440 *	US-PATENT-CLASS-204-40	c 24	N77-19171 *
US-PATENT-CLASS-200-129	c 33	N75-27249 *	US-PATENT-CLASS-204-192E	c 27	N82-33521 *	US-PATENT-CLASS-204-42	c 44	N76-14595 *
US-PATENT-CLASS-200-152	c 09	N71-19610 *	US-PATENT-CLASS-204-192E	c 24	N83-10117 *	US-PATENT-CLASS-204-430	c 35	N85-29212 *
US-PATENT-CLASS-200-153S	c 33	N80-18285 *	US-PATENT-CLASS-204-192E	c 52	N84-23095 *	US-PATENT-CLASS-204-49	c 15	N72-25452 *
US-PATENT-CLASS-200-157	c 08	N86-27288 *	US-PATENT-CLASS-204-192N	c 24	N85-21267 *	US-PATENT-CLASS-204-49	c 44	N76-14595 *
US-PATENT-CLASS-200-19	c 09	N70-39915 *	US-PATENT-CLASS-204-192N	c 26	N85-29005 *	US-PATENT-CLASS-204-56R	c 44	N83-10494 *
US-PATENT-CLASS-200-304	c 33	N80-18285 *	US-PATENT-CLASS-204-192P	c 76	N85-33826 *	US-PATENT-CLASS-204-56R	c 27	N83-29388 *
US-PATENT-CLASS-200-39	c 03	N70-38713 *	US-PATENT-CLASS-204-192R	c 24	N84-22695 *	US-PATENT-CLASS-204-56R	c 76	N84-35112 *
US-PATENT-CLASS-200-46	c 74	N79-12890 *	US-PATENT-CLASS-204-192R	c 31	N85-20153 *	US-PATENT-CLASS-204-59	c 15	N72-21466 *
US-PATENT-CLASS-200-61.05	c 25	N86-27431 *	US-PATENT-CLASS-204-192R	c 24	N85-21267 *	US-PATENT-CLASS-204-9	c 20	N74-32919 *
US-PATENT-CLASS-200-61.42	c 09	N71-12518 *	US-PATENT-CLASS-204-192SP	c 24	N84-22695 *	US-PATENT-CLASS-204-9	c 24	N77-19171 *

US-PATENT-CLASS-204/298	c 27	N86-19458 *	US-PATENT-CLASS-214-1B	c 54	N75-27758 *	US-PATENT-CLASS-219-413	c 14	N71-28958 *
US-PATENT-CLASS-204-1195B	c 25	N79-22235 *	US-PATENT-CLASS-214-1CM	c 15	N72-28495 *	US-PATENT-CLASS-219-477	c 33	N74-14935 *
US-PATENT-CLASS-205-343	c 35	N75-30502 *	US-PATENT-CLASS-214-1CM	c 54	N75-12616 *	US-PATENT-CLASS-219-497	c 77	N75-20140 *
US-PATENT-CLASS-206-439	c 52	N79-14749 *	US-PATENT-CLASS-214-1CM	c 18	N75-27041 *	US-PATENT-CLASS-219-499	c 14	N73-26430 *
US-PATENT-CLASS-206-447	c 27	N84-14323 *	US-PATENT-CLASS-214-1CM	c 54	N75-27758 *	US-PATENT-CLASS-219-501	c 77	N75-20140 *
US-PATENT-CLASS-206-582	c 27	N84-14323 *	US-PATENT-CLASS-214-1CM	c 37	N77-23483 *	US-PATENT-CLASS-219-505	c 14	N71-27058 *
US-PATENT-CLASS-208-10	c 25	N79-11152 *	US-PATENT-CLASS-214-1CM	c 54	N77-32721 *	US-PATENT-CLASS-219-505	c 77	N75-20140 *
US-PATENT-CLASS-208-10	c 23	N84-16255 *	US-PATENT-CLASS-214-1CM	c 54	N78-17676 *	US-PATENT-CLASS-219-50	c 14	N73-26430 *
US-PATENT-CLASS-208-10	c 25	N84-22709 *	US-PATENT-CLASS-214-1R	c 37	N76-15457 *	US-PATENT-CLASS-219-510	c 35	N81-26431 *
US-PATENT-CLASS-208-11	c 25	N86-25428 *	US-PATENT-CLASS-214-16.1CB	c 37	N77-22480 *	US-PATENT-CLASS-219-522	c 11	N73-12265 *
US-PATENT-CLASS-208-241	c 25	N82-23282 *	US-PATENT-CLASS-214-1	c 32	N70-41367 *	US-PATENT-CLASS-219-522	c 52	N80-16725 *
US-PATENT-CLASS-208-8LE	c 23	N84-16255 *	US-PATENT-CLASS-214-90R	c 03	N72-25021 *	US-PATENT-CLASS-219-522	c 27	N84-33589 *
US-PATENT-CLASS-208-8LE	c 25	N84-22709 *	US-PATENT-CLASS-215-247	c 33	N76-19339 *	US-PATENT-CLASS-219-530	c 33	N71-25353 *
US-PATENT-CLASS-208-8	c 25	N79-11152 *	US-PATENT-CLASS-219-10.41	c 33	N82-26571 *	US-PATENT-CLASS-219-539	c 33	N74-14935 *
US-PATENT-CLASS-209-10	c 15	N71-20440 *	US-PATENT-CLASS-219-10.43	c 31	N85-29083 *	US-PATENT-CLASS-219-541	c 27	N84-33589 *
US-PATENT-CLASS-209-127R	c 35	N76-22509 *	US-PATENT-CLASS-219-10.49R	c 33	N81-19389 *	US-PATENT-CLASS-219-543	c 27	N84-33589 *
US-PATENT-CLASS-209-250	c 37	N76-18456 *	US-PATENT-CLASS-219-10.49	c 11	N71-15925 *	US-PATENT-CLASS-219-545	c 33	N82-26571 *
US-PATENT-CLASS-209-300	c 37	N76-18456 *	US-PATENT-CLASS-219-10.49	c 31	N85-29083 *	US-PATENT-CLASS-219-62	c 15	N73-28515 *
US-PATENT-CLASS-209-305	c 37	N76-18456 *	US-PATENT-CLASS-219-10.53	c 33	N82-26571 *	US-PATENT-CLASS-219-72	c 15	N71-14932 *
US-PATENT-CLASS-209-349	c 15	N72-22483 *	US-PATENT-CLASS-219-10.53	c 31	N85-29083 *	US-PATENT-CLASS-219-74	c 74	N87-25843 *
US-PATENT-CLASS-209-422	c 71	N85-30765 *	US-PATENT-CLASS-219-10.67	c 33	N81-19389 *	US-PATENT-CLASS-219-78.14	c 24	N85-30027 *
US-PATENT-CLASS-209-638	c 71	N85-30765 *	US-PATENT-CLASS-219-10.77	c 31	N85-29083 *	US-PATENT-CLASS-219-78	c 37	N74-11300 *
US-PATENT-CLASS-21-207	c 17	N71-16393 *	US-PATENT-CLASS-219-101	c 15	N73-14468 *	US-PATENT-CLASS-219-85CA	c 35	N80-20560 *
US-PATENT-CLASS-210-DIG.29	c 52	N79-14749 *	US-PATENT-CLASS-219-101	c 37	N74-11300 *	US-PATENT-CLASS-219-85CM	c 35	N80-20560 *
US-PATENT-CLASS-210-DIG.27	c 27	N77-31308 *	US-PATENT-CLASS-219-107	c 15	N73-28515 *	US-PATENT-CLASS-219-85R	c 35	N80-20560 *
US-PATENT-CLASS-210-103	c 05	N72-27102 *	US-PATENT-CLASS-219-107	c 37	N74-11300 *	US-PATENT-CLASS-219-85	c 15	N72-22491 *
US-PATENT-CLASS-210-104	c 05	N72-27102 *	US-PATENT-CLASS-219-109	c 15	N72-23497 *	US-PATENT-CLASS-219-85	c 15	N72-23497 *
US-PATENT-CLASS-210-108	c 34	N79-24285 *	US-PATENT-CLASS-219-117	c 15	N73-32358 *	US-PATENT-CLASS-219-91	c 15	N71-18613 *
US-PATENT-CLASS-210-110	c 05	N72-27102 *	US-PATENT-CLASS-219-118	c 37	N76-27568 *	US-PATENT-CLASS-219-91	c 15	N73-32358 *
US-PATENT-CLASS-210-137	c 05	N72-27102 *	US-PATENT-CLASS-219-118	c 37	N77-11397 *	US-PATENT-CLASS-219-92	c 37	N76-27568 *
US-PATENT-CLASS-210-142	c 34	N79-24285 *	US-PATENT-CLASS-219-119	c 15	N73-14468 *	US-PATENT-CLASS-219-92	c 37	N77-11397 *
US-PATENT-CLASS-210-151	c 45	N84-12654 *	US-PATENT-CLASS-219-121LE	c 26	N86-32551 *	US-PATENT-CLASS-22-200	c 15	N71-15966 *
US-PATENT-CLASS-210-186	c 37	N80-10494 *	US-PATENT-CLASS-219-121LN	c 44	N82-26777 *	US-PATENT-CLASS-22-203	c 17	N70-38198 *
US-PATENT-CLASS-210-188	c 12	N72-25292 *	US-PATENT-CLASS-219-121LY	c 26	N86-32551 *	US-PATENT-CLASS-220-14	c 15	N69-39935 *
US-PATENT-CLASS-210-192	c 54	N78-14784 *	US-PATENT-CLASS-219-121P	c 15	N72-32487 *	US-PATENT-CLASS-220-15	c 31	N71-15664 *
US-PATENT-CLASS-210-212	c 03	N72-20033 *	US-PATENT-CLASS-219-121	c 15	N69-21471 *	US-PATENT-CLASS-220-15	c 34	N75-12222 *
US-PATENT-CLASS-210-222	c 35	N78-12390 *	US-PATENT-CLASS-219-121	c 33	N70-34540 *	US-PATENT-CLASS-220-1	c 31	N71-17680 *
US-PATENT-CLASS-210-222	c 52	N80-14687 *	US-PATENT-CLASS-219-121	c 15	N71-19486 *	US-PATENT-CLASS-220-2.2	c 24	N79-25143 *
US-PATENT-CLASS-210-23F	c 51	N79-10693 *	US-PATENT-CLASS-219-121	c 16	N71-20400 *	US-PATENT-CLASS-220-266	c 37	N79-22474 *
US-PATENT-CLASS-210-23H	c 27	N80-23452 *	US-PATENT-CLASS-219-121	c 15	N71-27135 *	US-PATENT-CLASS-220-306	c 27	N84-27886 *
US-PATENT-CLASS-210-234	c 34	N75-33342 *	US-PATENT-CLASS-219-124.2.2	c 37	N79-10421 *	US-PATENT-CLASS-220-335	c 45	N85-25217 *
US-PATENT-CLASS-210-24R	c 27	N81-14076 *	US-PATENT-CLASS-219-124.32	c 37	N79-10421 *	US-PATENT-CLASS-220-378	c 37	N82-24490 *
US-PATENT-CLASS-210-24	c 27	N77-30236 *	US-PATENT-CLASS-219-124.34	c 37	N86-21850 *	US-PATENT-CLASS-220-423	c 37	N80-18393 *
US-PATENT-CLASS-210-24	c 25	N81-19244 *	US-PATENT-CLASS-219-124.34	c 74	N87-17493 *	US-PATENT-CLASS-220-429	c 44	N80-20808 *
US-PATENT-CLASS-210-259	c 34	N75-33342 *	US-PATENT-CLASS-219-124.34	c 74	N87-25843 *	US-PATENT-CLASS-220-445	c 37	N80-18393 *
US-PATENT-CLASS-210-282	c 37	N87-17035 *	US-PATENT-CLASS-219-125.1	c 37	N79-10421 *	US-PATENT-CLASS-220-46	c 15	N71-27068 *
US-PATENT-CLASS-210-28	c 85	N79-17747 *	US-PATENT-CLASS-219-125	c 15	N71-23815 *	US-PATENT-CLASS-220-5R	c 15	N72-22486 *
US-PATENT-CLASS-210-304	c 34	N75-33342 *	US-PATENT-CLASS-219-125	c 37	N75-27376 *	US-PATENT-CLASS-220-55	c 15	N69-27502 *
US-PATENT-CLASS-210-314	c 28	N70-41447 *	US-PATENT-CLASS-219-130.01	c 74	N87-17493 *	US-PATENT-CLASS-220-63	c 11	N70-38182 *
US-PATENT-CLASS-210-321.1	c 25	N82-21269 *	US-PATENT-CLASS-219-130.01	c 74	N87-25843 *	US-PATENT-CLASS-220-67	c 15	N71-10577 *
US-PATENT-CLASS-210-321B	c 52	N80-14687 *	US-PATENT-CLASS-219-130	c 15	N71-23798 *	US-PATENT-CLASS-220-82R	c 31	N81-19343 *
US-PATENT-CLASS-210-333	c 34	N75-33342 *	US-PATENT-CLASS-219-131	c 15	N71-15871 *	US-PATENT-CLASS-220-89A	c 31	N81-19343 *
US-PATENT-CLASS-210-340	c 34	N75-33342 *	US-PATENT-CLASS-219-137	c 15	N70-34814 *	US-PATENT-CLASS-220-89	c 11	N71-15960 *
US-PATENT-CLASS-210-340	c 37	N80-10494 *	US-PATENT-CLASS-219-137	c 37	N75-19683 *	US-PATENT-CLASS-220-89	c 11	N71-17600 *
US-PATENT-CLASS-210-40	c 27	N77-31308 *	US-PATENT-CLASS-219-158	c 15	N72-22491 *	US-PATENT-CLASS-220-901	c 37	N80-18393 *
US-PATENT-CLASS-210-40	c 85	N79-17747 *	US-PATENT-CLASS-219-160	c 37	N80-23655 *	US-PATENT-CLASS-220-9	c 23	N71-22881 *
US-PATENT-CLASS-210-40	c 45	N82-11634 *	US-PATENT-CLASS-219-161	c 37	N80-23655 *	US-PATENT-CLASS-220-9	c 18	N71-23658 *
US-PATENT-CLASS-210-411	c 34	N75-33342 *	US-PATENT-CLASS-219-19	c 33	N70-34812 *	US-PATENT-CLASS-220-9	c 15	N71-23816 *
US-PATENT-CLASS-210-425	c 34	N75-33342 *	US-PATENT-CLASS-219-201	c 52	N80-16725 *	US-PATENT-CLASS-220-9	c 33	N71-25351 *
US-PATENT-CLASS-210-429	c 37	N76-14463 *	US-PATENT-CLASS-219-201	c 37	N85-29286 *	US-PATENT-CLASS-221-265	c 51	N74-15778 *
US-PATENT-CLASS-210-433M	c 51	N79-10693 *	US-PATENT-CLASS-219-203	c 11	N73-12265 *	US-PATENT-CLASS-221-31	c 31	N79-21225 *
US-PATENT-CLASS-210-445	c 15	N72-11389 *	US-PATENT-CLASS-219-203	c 27	N84-33589 *	US-PATENT-CLASS-221-135	c 15	N72-21465 *
US-PATENT-CLASS-210-45	c 85	N79-17747 *	US-PATENT-CLASS-219-209	c 35	N81-26431 *	US-PATENT-CLASS-222-137	c 14	N71-27005 *
US-PATENT-CLASS-210-500M	c 27	N80-23452 *	US-PATENT-CLASS-219-210	c 35	N81-26431 *	US-PATENT-CLASS-222-145	c 37	N76-19436 *
US-PATENT-CLASS-210-500M	c 25	N81-17187 *	US-PATENT-CLASS-219-216	c 35	N74-15831 *	US-PATENT-CLASS-222-193	c 37	N74-13178 *
US-PATENT-CLASS-210-500	c 25	N75-12087 *	US-PATENT-CLASS-219-219	c 27	N84-33589 *	US-PATENT-CLASS-222-309	c 15	N72-21465 *
US-PATENT-CLASS-210-50	c 45	N79-12584 *	US-PATENT-CLASS-219-221	c 15	N72-11392 *	US-PATENT-CLASS-222-309	c 54	N74-12779 *
US-PATENT-CLASS-210-512	c 34	N75-33342 *	US-PATENT-CLASS-219-221	c 37	N85-29286 *	US-PATENT-CLASS-222-309	c 35	N85-21595 *
US-PATENT-CLASS-210-54	c 85	N79-17747 *	US-PATENT-CLASS-219-229	c 15	N71-27214 *	US-PATENT-CLASS-222-324	c 54	N74-17853 *
US-PATENT-CLASS-210-57	c 45	N80-14579 *	US-PATENT-CLASS-219-234	c 15	N72-22491 *	US-PATENT-CLASS-222-340	c 54	N74-12779 *
US-PATENT-CLASS-210-602	c 45	N84-12654 *	US-PATENT-CLASS-219-234	c 15	N72-23497 *	US-PATENT-CLASS-222-340	c 35	N85-21595 *
US-PATENT-CLASS-210-605	c 45	N84-12654 *	US-PATENT-CLASS-219-243	c 15	N72-11392 *	US-PATENT-CLASS-222-387	c 54	N74-12779 *
US-PATENT-CLASS-210-60	c 45	N79-12584 *	US-PATENT-CLASS-219-273	c 15	N72-32487 *	US-PATENT-CLASS-222-389	c 15	N70-38996 *
US-PATENT-CLASS-210-617	c 45	N84-12654 *	US-PATENT-CLASS-219-275	c 15	N71-20395 *	US-PATENT-CLASS-222-414	c 14	N73-27378 *
US-PATENT-CLASS-210-63R	c 25	N78-10225 *	US-PATENT-CLASS-219-275	c 20	N87-16875 *	US-PATENT-CLASS-222-43	c 35	N85-21595 *
US-PATENT-CLASS-210-63R	c 45	N79-12584 *	US-PATENT-CLASS-219-285	c 37	N85-29286 *	US-PATENT-CLASS-222-45	c 14	N70-40233 *
US-PATENT-CLASS-210-632	c 45	N80-14579 *	US-PATENT-CLASS-219-289	c 51	N79-10694 *	US-PATENT-CLASS-222-48	c 35	N85-21595 *
US-PATENT-CLASS-210-66	c 85	N79-17747 *	US-PATENT-CLASS-219-300	c 37	N77-13418 *	US-PATENT-CLASS-222-49	c 14	N71-27005 *
US-PATENT-CLASS-210-67	c 85	N79-17747 *	US-PATENT-CLASS-219-302	c 51	N79-10694 *	US-PATENT-CLASS-222-514	c 54	N74-12779 *
US-PATENT-CLASS-210-70	c 85	N79-17747 *	US-PATENT-CLASS-219-304	c 37	N77-13418 *	US-PATENT-CLASS-222-61	c 27	N71-29155 *
US-PATENT-CLASS-210-71	c 25	N78-10225 *	US-PATENT-CLASS-219-343	c 27	N83-36220 *	US-PATENT-CLASS-222-61	c 37	N77-28487 *
US-PATENT-CLASS-210-73R	c 85	N79-17747 *	US-PATENT-CLASS-219-347	c 15	N69-27871 *	US-PATENT-CLASS-222-71	c 15	N72-21465 *
US-PATENT-CLASS-210-748	c 71	N83-35781 *	US-PATENT-CLASS-219-347	c 33	N70-34545 *	US-PATENT-CLASS-222-95	c 37	N77-28487 *
US-PATENT-CLASS-210-748	c 35	N84-17555 *	US-PATENT-CLASS-219-348	c 15	N73-27405 *	US-PATENT-CLASS-224-25A	c 05	N72-23085 *
US-PATENT-CLASS-210-82	c 34	N75-33342 *	US-PATENT-CLASS-219-34	c 09	N70-33312 *	US-PATENT-CLASS-224-25	c 05	N71-12351 *
US-PATENT-CLASS-210-96M	c 54	N78-14784 *	US-PATENT-CLASS-219-354	c 27	N83-36220 *	US-PATENT-CLASS-224-444	c 54	N74-17853 *
US-PATENT-CLASS-210-96M	c 51	N79-10693 *	US-PATENT-CLASS-219-364	c 33	N71-16278 *	US-PATENT-CLASS-225-103	c 37	N82-32730 *
US-PATENT-CLASS-211-126	c 35	N86-20751 *	US-PATENT-CLASS-219-378	c 33	N71-25353 *	US-PATENT-CLASS-225-1	c 15	N71-17628 *
US-PATENT-CLASS-211-74	c 35	N86-20751 *	US-PATENT-CLASS-219-388	c 35	N74-15831 *	US-PATENT-CLASS-225-2	c 26	N71-14354 *
US-PATENT-CLASS-212-11	c 32	N71-17609 *	US-PATENT-CLASS-219-390	c 27	N83-36220 *	US-PATENT-CLASS-226-190	c 08	N71-19420 *
US-PATENT-CLASS-212-134	c 15	N72-11388 *	US-PATENT-CLASS-219-390	c 35	N86-20750 *	US-PATENT-CLASS-226-58	c 14	N71-28935 *
US-PATENT-CLASS-212-230	c 37	N86-20789 *	US-PATENT-CLASS-219-395	c 35	N86-20750 *	US-PATENT-CLASS-227-27	c 37	N86-25790 *
US-PATENT-CLASS-212-267	c 31	N81-27324 *	US-PATENT-CLASS-219-396	c 35	N86-20750 *	US-PATENT-CLASS-227-28	c 37	N86-25790 *
US-PATENT-CLASS-213-81	c 37	N77-23483 *	US-PATENT-CLASS-219-410	c 12	N79-26075 *	US-PATENT-CLASS-228-103	c 35	N83-35338 *
US-PATENT-CLASS-214-1CM	c 37	N76-15460 *	US-PATENT-CLASS-219-411	c 17	N69-25147 *	US-PATENT-CLASS-228-107	c 37	N79-13364 *
US-PATENT-CLASS-214-1BC	c 54	N77-32721 *	US-PATENT-CLASS-219-411	c 27	N83-36220 *	US-PATENT-CLASS-228-116	c 37	N81-19455 *

US-PATENT-CLASS-228-118	c 24	N81-17170 *	US-PATENT-CLASS-23-254E	c 06	N73-16106 *	US-PATENT-CLASS-235-155	c 08	N73-12176 *
US-PATENT-CLASS-228-118	c 24	N81-26179 *	US-PATENT-CLASS-23-254E	c 33	N75-26245 *	US-PATENT-CLASS-235-156	c 08	N71-18693 *
US-PATENT-CLASS-228-119	c 37	N86-32736 *	US-PATENT-CLASS-23-254E	c 35	N75-29380 *	US-PATENT-CLASS-235-156	c 60	N75-13539 *
US-PATENT-CLASS-228-124	c 26	N77-29260 *	US-PATENT-CLASS-23-254E	c 45	N76-21742 *	US-PATENT-CLASS-235-156	c 32	N76-21366 *
US-PATENT-CLASS-228-124	c 37	N87-21334 *	US-PATENT-CLASS-23-254R	c 06	N73-16106 *	US-PATENT-CLASS-235-156	c 32	N77-10392 *
US-PATENT-CLASS-228-13	c 18	N79-11108 *	US-PATENT-CLASS-23-254R	c 25	N76-18245 *	US-PATENT-CLASS-235-156	c 38	N78-17395 *
US-PATENT-CLASS-228-15.1	c 18	N79-11108 *	US-PATENT-CLASS-23-254R	c 23	N77-17161 *	US-PATENT-CLASS-235-156	c 38	N78-17396 *
US-PATENT-CLASS-228-157	c 24	N82-24296 *	US-PATENT-CLASS-23-254	c 14	N71-20442 *	US-PATENT-CLASS-235-158	c 08	N71-19437 *
US-PATENT-CLASS-228-157	c 24	N84-11214 *	US-PATENT-CLASS-23-255E	c 35	N75-29380 *	US-PATENT-CLASS-235-164	c 08	N71-33110 *
US-PATENT-CLASS-228-165	c 35	N84-22930 *	US-PATENT-CLASS-23-255R	c 25	N76-18245 *	US-PATENT-CLASS-235-164	c 08	N73-26175 *
US-PATENT-CLASS-228-170	c 24	N81-17170 *	US-PATENT-CLASS-23-259	c 15	N71-27372 *	US-PATENT-CLASS-235-164	c 60	N74-20836 *
US-PATENT-CLASS-228-173	c 18	N79-11108 *	US-PATENT-CLASS-23-259	c 15	N72-21465 *	US-PATENT-CLASS-235-175	c 08	N71-18602 *
US-PATENT-CLASS-228-174	c 24	N81-17170 *	US-PATENT-CLASS-23-259	c 37	N74-18123 *	US-PATENT-CLASS-235-175	c 08	N71-33110 *
US-PATENT-CLASS-228-181	c 24	N84-11214 *	US-PATENT-CLASS-23-259	c 51	N77-27677 *	US-PATENT-CLASS-235-176	c 08	N70-34787 *
US-PATENT-CLASS-228-190	c 24	N75-28135 *	US-PATENT-CLASS-23-277C	c 25	N74-33378 *	US-PATENT-CLASS-235-181	c 07	N71-21476 *
US-PATENT-CLASS-228-190	c 26	N77-28265 *	US-PATENT-CLASS-23-277R	c 44	N77-22607 *	US-PATENT-CLASS-235-181	c 07	N73-13149 *
US-PATENT-CLASS-228-190	c 24	N81-17170 *	US-PATENT-CLASS-23-277	c 26	N70-40015 *	US-PATENT-CLASS-235-181	c 35	N75-21582 *
US-PATENT-CLASS-228-190	c 24	N81-26179 *	US-PATENT-CLASS-23-281	c 28	N72-18766 *	US-PATENT-CLASS-235-181	c 33	N75-26243 *
US-PATENT-CLASS-228-193	c 24	N75-28135 *	US-PATENT-CLASS-23-281	c 25	N74-12813 *	US-PATENT-CLASS-235-181	c 43	N77-10584 *
US-PATENT-CLASS-228-193	c 37	N76-18455 *	US-PATENT-CLASS-23-281	c 44	N76-18642 *	US-PATENT-CLASS-235-181	c 38	N78-17395 *
US-PATENT-CLASS-228-193	c 35	N83-35338 *	US-PATENT-CLASS-23-281	c 44	N76-29700 *	US-PATENT-CLASS-235-183	c 08	N72-22165 *
US-PATENT-CLASS-228-194	c 26	N77-28265 *	US-PATENT-CLASS-23-281	c 44	N77-10636 *	US-PATENT-CLASS-235-184	c 74	N76-18913 *
US-PATENT-CLASS-228-194	c 37	N75-25185 *	US-PATENT-CLASS-23-281	c 44	N77-22607 *	US-PATENT-CLASS-235-186	c 10	N73-26230 *
US-PATENT-CLASS-228-2.5	c 37	N79-13364 *	US-PATENT-CLASS-23-284	c 35	N74-15127 *	US-PATENT-CLASS-235-194	c 09	N71-19480 *
US-PATENT-CLASS-228-205	c 37	N81-19455 *	US-PATENT-CLASS-23-288F	c 25	N74-12813 *	US-PATENT-CLASS-235-194	c 08	N72-22165 *
US-PATENT-CLASS-228-206	c 37	N76-18455 *	US-PATENT-CLASS-23-288J	c 25	N74-12813 *	US-PATENT-CLASS-235-194	c 10	N73-26230 *
US-PATENT-CLASS-228-208	c 37	N87-21334 *	US-PATENT-CLASS-23-288R	c 28	N80-10374 *	US-PATENT-CLASS-235-197	c 08	N72-22165 *
US-PATENT-CLASS-228-209	c 37	N87-21334 *	US-PATENT-CLASS-23-288	c 28	N72-18766 *	US-PATENT-CLASS-235-197	c 09	N72-23173 *
US-PATENT-CLASS-228-212	c 37	N80-23655 *	US-PATENT-CLASS-23-292	c 51	N77-27677 *	US-PATENT-CLASS-235-197	c 10	N73-20253 *
US-PATENT-CLASS-228-212	c 24	N84-11214 *	US-PATENT-CLASS-23-293R	c 28	N81-15119 *	US-PATENT-CLASS-235-197	c 10	N73-26230 *
US-PATENT-CLASS-228-214	c 37	N76-18455 *	US-PATENT-CLASS-23-295R	c 76	N85-29800 *	US-PATENT-CLASS-235-197	c 60	N75-13539 *
US-PATENT-CLASS-228-222	c 37	N80-23655 *	US-PATENT-CLASS-23-300	c 28	N80-23471 *	US-PATENT-CLASS-235-201	c 10	N71-25899 *
US-PATENT-CLASS-228-232	c 26	N77-28265 *	US-PATENT-CLASS-23-302A	c 28	N80-23471 *	US-PATENT-CLASS-235-61.6	c 01	N71-13411 *
US-PATENT-CLASS-228-238	c 37	N76-18455 *	US-PATENT-CLASS-23-302R	c 28	N80-23471 *	US-PATENT-CLASS-235-61.6	c 15	N71-21179 *
US-PATENT-CLASS-228-238.18	c 35	N83-35338 *	US-PATENT-CLASS-23-302T	c 28	N80-23471 *	US-PATENT-CLASS-235-61INV	c 08	N72-11172 *
US-PATENT-CLASS-228-263	c 26	N77-29260 *	US-PATENT-CLASS-23-313R	c 71	N85-22104 *	US-PATENT-CLASS-235-61INV	c 35	N76-29552 *
US-PATENT-CLASS-228-44.1R	c 37	N80-23655 *	US-PATENT-CLASS-23-55	c 06	N72-17093 *	US-PATENT-CLASS-235-70	c 04	N78-17031 *
US-PATENT-CLASS-228-5.1	c 44	N79-24431 *	US-PATENT-CLASS-23-88	c 06	N72-17093 *	US-PATENT-CLASS-235-78M	c 35	N76-29552 *
US-PATENT-CLASS-228-50	c 15	N70-39924 *	US-PATENT-CLASS-23-927	c 51	N80-16714 *	US-PATENT-CLASS-235-88M	c 35	N76-29552 *
US-PATENT-CLASS-228-50	c 15	N70-40204 *	US-PATENT-CLASS-23-97	c 06	N72-17093 *	US-PATENT-CLASS-235-92CA	c 33	N74-10223 *
US-PATENT-CLASS-228-53	c 15	N71-27214 *	US-PATENT-CLASS-230-162	c 33	N71-17610 *	US-PATENT-CLASS-235-92CA	c 38	N77-17495 *
US-PATENT-CLASS-228-57	c 15	N72-22491 *	US-PATENT-CLASS-230-221	c 11	N72-22245 *	US-PATENT-CLASS-235-92CC	c 08	N72-20176 *
US-PATENT-CLASS-228-6	c 44	N79-24431 *	US-PATENT-CLASS-230-54	c 11	N72-22245 *	US-PATENT-CLASS-235-92CT	c 38	N77-17495 *
US-PATENT-CLASS-228-7	c 15	N71-15607 *	US-PATENT-CLASS-233-DIG.1	c 34	N75-26282 *	US-PATENT-CLASS-235-92CV	c 08	N73-25206 *
US-PATENT-CLASS-228-8	c 15	N71-23050 *	US-PATENT-CLASS-233-11	c 15	N71-16079 *	US-PATENT-CLASS-235-92DE	c 08	N72-20176 *
US-PATENT-CLASS-228-8	c 37	N79-10421 *	US-PATENT-CLASS-233-20RP	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 08	N72-20176 *
US-PATENT-CLASS-228-9	c 15	N71-20393 *	US-PATENT-CLASS-233-25	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 33	N74-10223 *
US-PATENT-CLASS-229-DIG.11	c 32	N73-13921 *	US-PATENT-CLASS-233-46	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 33	N75-19519 *
US-PATENT-CLASS-23-109	c 04	N72-33072 *	US-PATENT-CLASS-233-6	c 34	N75-26282 *	US-PATENT-CLASS-235-92DN	c 08	N73-25206 *
US-PATENT-CLASS-23-201	c 06	N72-17095 *	US-PATENT-CLASS-235-150.27	c 04	N74-13420 *	US-PATENT-CLASS-235-92DN	c 38	N77-17495 *
US-PATENT-CLASS-23-208	c 15	N69-21922 *	US-PATENT-CLASS-235-150.2	c 08	N73-25206 *	US-PATENT-CLASS-235-92EA	c 08	N73-25206 *
US-PATENT-CLASS-23-208	c 26	N70-36805 *	US-PATENT-CLASS-235-150.1	c 08	N71-29033 *	US-PATENT-CLASS-235-92EV	c 08	N73-25206 *
US-PATENT-CLASS-23-209.1	c 15	N72-20446 *	US-PATENT-CLASS-235-150.1	c 08	N72-31226 *	US-PATENT-CLASS-235-92FG	c 08	N73-20217 *
US-PATENT-CLASS-23-230B	c 25	N75-14844 *	US-PATENT-CLASS-235-150.1	c 32	N77-10392 *	US-PATENT-CLASS-235-92LG	c 08	N72-20176 *
US-PATENT-CLASS-23-230B	c 23	N77-17161 *	US-PATENT-CLASS-235-150.22	c 02	N71-13421 *	US-PATENT-CLASS-235-92LG	c 33	N75-19519 *
US-PATENT-CLASS-23-230B	c 25	N79-14169 *	US-PATENT-CLASS-235-150.22	c 04	N74-13420 *	US-PATENT-CLASS-235-92MT	c 08	N72-31226 *
US-PATENT-CLASS-23-230B	c 51	N80-27067 *	US-PATENT-CLASS-235-150.25	c 21	N71-21688 *	US-PATENT-CLASS-235-92MT	c 32	N73-26910 *
US-PATENT-CLASS-23-230L	c 35	N74-32879 *	US-PATENT-CLASS-235-150.25	c 35	N77-20399 *	US-PATENT-CLASS-235-92PC	c 35	N82-11431 *
US-PATENT-CLASS-23-230M	c 25	N76-18245 *	US-PATENT-CLASS-235-150.26	c 04	N74-13420 *	US-PATENT-CLASS-235-92PE	c 37	N74-21056 *
US-PATENT-CLASS-23-230M	c 23	N77-17161 *	US-PATENT-CLASS-235-150.27	c 08	N71-29033 *	US-PATENT-CLASS-235-92R	c 08	N72-20176 *
US-PATENT-CLASS-23-230PC	c 25	N78-15210 *	US-PATENT-CLASS-235-150.2	c 08	N71-29033 *	US-PATENT-CLASS-235-92R	c 08	N73-20217 *
US-PATENT-CLASS-23-230PC	c 25	N82-12166 *	US-PATENT-CLASS-235-150.2	c 35	N77-20399 *	US-PATENT-CLASS-235-92R	c 08	N73-25206 *
US-PATENT-CLASS-23-230R	c 06	N72-17094 *	US-PATENT-CLASS-235-150.3	c 33	N74-10223 *	US-PATENT-CLASS-235-92R	c 33	N75-19519 *
US-PATENT-CLASS-23-230R	c 17	N73-12547 *	US-PATENT-CLASS-235-150.52	c 08	N72-22165 *	US-PATENT-CLASS-235-92R	c 38	N77-17495 *
US-PATENT-CLASS-23-230R	c 17	N73-27446 *	US-PATENT-CLASS-235-150.53	c 08	N72-22165 *	US-PATENT-CLASS-235-92SB	c 37	N74-21056 *
US-PATENT-CLASS-23-230R	c 25	N76-18245 *	US-PATENT-CLASS-235-150.53	c 07	N73-13149 *	US-PATENT-CLASS-235-92SH	c 33	N76-14373 *
US-PATENT-CLASS-23-230R	c 45	N76-31714 *	US-PATENT-CLASS-235-150.53	c 33	N75-26243 *	US-PATENT-CLASS-235-92T	c 03	N72-25020 *
US-PATENT-CLASS-23-230R	c 23	N77-17161 *	US-PATENT-CLASS-235-151.13	c 25	N76-18245 *	US-PATENT-CLASS-235-92T	c 08	N73-20217 *
US-PATENT-CLASS-23-230	c 06	N71-23527 *	US-PATENT-CLASS-235-151.1	c 08	N71-29033 *	US-PATENT-CLASS-235-92T	c 33	N75-19519 *
US-PATENT-CLASS-23-230	c 06	N72-17095 *	US-PATENT-CLASS-235-151.1	c 08	N72-31226 *	US-PATENT-CLASS-235-92VA	c 33	N75-19519 *
US-PATENT-CLASS-23-231	c 23	N77-17161 *	US-PATENT-CLASS-235-151.27	c 08	N73-25206 *	US-PATENT-CLASS-235-92	c 08	N71-22897 *
US-PATENT-CLASS-23-232C	c 06	N72-17094 *	US-PATENT-CLASS-235-151.31	c 10	N73-25240 *	US-PATENT-CLASS-235-92	c 08	N71-24891 *
US-PATENT-CLASS-23-232C	c 25	N76-18245 *	US-PATENT-CLASS-235-151.34	c 35	N76-14431 *	US-PATENT-CLASS-235-92	c 10	N71-27137 *
US-PATENT-CLASS-23-232C	c 23	N77-17161 *	US-PATENT-CLASS-235-151.3	c 52	N74-22771 *	US-PATENT-CLASS-235-92	c 14	N71-27215 *
US-PATENT-CLASS-23-232E	c 06	N73-16106 *	US-PATENT-CLASS-235-151.3	c 38	N78-17395 *	US-PATENT-CLASS-236-1F	c 35	N81-26431 *
US-PATENT-CLASS-23-232E	c 45	N76-31714 *	US-PATENT-CLASS-235-151.3	c 38	N78-17396 *	US-PATENT-CLASS-236-13	c 31	N80-32583 *
US-PATENT-CLASS-23-232E	c 25	N78-15210 *	US-PATENT-CLASS-235-151	c 37	N74-21056 *	US-PATENT-CLASS-236-1	c 33	N71-16357 *
US-PATENT-CLASS-23-232E	c 25	N82-12166 *	US-PATENT-CLASS-235-152IE	c 08	N73-32081 *	US-PATENT-CLASS-236-44C	c 31	N80-32583 *
US-PATENT-CLASS-23-232R	c 06	N73-16106 *	US-PATENT-CLASS-235-152	c 07	N71-24741 *	US-PATENT-CLASS-236-49	c 31	N74-27902 *
US-PATENT-CLASS-23-232R	c 45	N76-31714 *	US-PATENT-CLASS-235-152	c 08	N72-20176 *	US-PATENT-CLASS-236-49	c 31	N80-32583 *
US-PATENT-CLASS-23-232R	c 23	N77-17161 *	US-PATENT-CLASS-235-152	c 08	N72-22167 *	US-PATENT-CLASS-236-68	c 15	N72-12409 *
US-PATENT-CLASS-23-232R	c 25	N78-15210 *	US-PATENT-CLASS-235-152	c 08	N72-25210 *	US-PATENT-CLASS-237-1A	c 44	N76-14602 *
US-PATENT-CLASS-23-252R	c 25	N74-12813 *	US-PATENT-CLASS-235-152	c 08	N73-12175 *	US-PATENT-CLASS-237-1A	c 44	N78-10554 *
US-PATENT-CLASS-23-252R	c 25	N79-10162 *	US-PATENT-CLASS-235-152	c 09	N73-13209 *	US-PATENT-CLASS-237-1A	c 44	N78-15560 *
US-PATENT-CLASS-23-252R	c 25	N79-28253 *	US-PATENT-CLASS-235-152	c 08	N73-26175 *	US-PATENT-CLASS-237-1A	c 44	N78-17460 *
US-PATENT-CLASS-23-253A	c 51	N77-27677 *	US-PATENT-CLASS-235-152	c 60	N77-14751 *	US-PATENT-CLASS-237-1A	c 44	N78-31525 *
US-PATENT-CLASS-23-253A	c 54	N78-14784 *	US-PATENT-CLASS-235-153AE	c 60	N76-21914 *	US-PATENT-CLASS-237-1A	c 44	N79-24433 *
US-PATENT-CLASS-23-253PC	c 06	N72-17094 *	US-PATENT-CLASS-235-153AK	c 62	N74-14920 *	US-PATENT-CLASS-237-60	c 34	N76-17317 *
US-PATENT-CLASS-23-253PC	c 37	N74-18123 *	US-PATENT-CLASS-235-153	c 08	N71-24633 *	US-PATENT-CLASS-238-134	c 85	N74-34672 *
US-PATENT-CLASS-23-253R	c 15	N72-21465 *	US-PATENT-CLASS-235-153	c 08	N72-22166 *	US-PATENT-CLASS-238-1	c 05	N71-28619 *
US-PATENT-CLASS-23-253R	c 25	N75-14844 *	US-PATENT-CLASS-235-154	c 08	N70-34778 *	US-PATENT-CLASS-239-DIG.23	c 37	N85-29283 *
US-PATENT-CLASS-23-253R	c 25	N76-18245 *	US-PATENT-CLASS-235-154	c 10	N71-23662 *	US-PATENT-CLASS-239-102	c 37	N80-10494 *
US-PATENT-CLASS-23-253	c 23	N71-16355 *	US-PATENT-CLASS-235-154	c 08	N72-18184 *	US-PATENT-CLASS-239-127.1	c 28	N71-23968 *
US-PATENT-CLASS-23-253	c 06	N71-26754 *	US-PATENT-CLASS-235-154	c 08	N72-25206 *	US-PATENT-CLASS-239-127.1	c 28	N73-32606 *
US-PATENT-CLASS-23-253	c 06	N72-17095 *	US-PATENT-CLASS-235-155	c 08	N71-24890 *	US-PATENT-CLASS-239-127.1	c 34	N79-13288 *
US-PATENT-CLASS-23-254EF	c 35	N76-18403 *	US-PATENT-CLASS-235-155	c 08	N72-21197 *	US-PATENT-CLASS-239-127.1	c 34	N79-13289 *

US-PATENT-CLASS-239-127.1	c 34	N80-24573 *	US-PATENT-CLASS-244-1SA	c 15	N73-25513 *	US-PATENT-CLASS-244-13	c 05	N84-12154 *
US-PATENT-CLASS-239-127.1	c 44	N81-24519 *	US-PATENT-CLASS-244-1SA	c 21	N73-30640 *	US-PATENT-CLASS-244-140	c 02	N70-38009 *
US-PATENT-CLASS-239-127.3	c 20	N76-14191 *	US-PATENT-CLASS-244-1SA	c 19	N74-15089 *	US-PATENT-CLASS-244-145	c 02	N74-10034 *
US-PATENT-CLASS-239-127.3	c 07	N80-33292 *	US-PATENT-CLASS-244-1SA	c 35	N74-28097 *	US-PATENT-CLASS-244-147	c 05	N85-21147 *
US-PATENT-CLASS-239-132.5	c 20	N87-14420 *	US-PATENT-CLASS-244-1SB	c 15	N73-12486 *	US-PATENT-CLASS-244-14	c 14	N70-33322 *
US-PATENT-CLASS-239-171	c 37	N77-13418 *	US-PATENT-CLASS-244-1SC	c 31	N73-32750 *	US-PATENT-CLASS-244-15.5	c 31	N72-18859 *
US-PATENT-CLASS-239-265.11	c 18	N71-21068 *	US-PATENT-CLASS-244-1SC	c 34	N75-12222 *	US-PATENT-CLASS-244-150	c 15	N71-24600 *
US-PATENT-CLASS-239-265.11	c 07	N74-33218 *	US-PATENT-CLASS-244-1SD	c 31	N73-26876 *	US-PATENT-CLASS-244-151R	c 33	N74-22865 *
US-PATENT-CLASS-239-265.11	c 07	N76-18117 *	US-PATENT-CLASS-244-1SD	c 37	N74-27903 *	US-PATENT-CLASS-244-152	c 02	N70-36804 *
US-PATENT-CLASS-239-265.15	c 37	N79-22474 *	US-PATENT-CLASS-244-1SD	c 15	N77-1012 *	US-PATENT-CLASS-244-155	c 30	N73-12884 *
US-PATENT-CLASS-239-265.17	c 07	N74-27490 *	US-PATENT-CLASS-244-1SS	c 11	N73-13257 *	US-PATENT-CLASS-244-155	c 31	N73-14854 *
US-PATENT-CLASS-239-265.17	c 07	N83-33884 *	US-PATENT-CLASS-244-1SS	c 03	N73-20039 *	US-PATENT-CLASS-244-158R	c 20	N86-26368 *
US-PATENT-CLASS-239-265.17	c 71	N84-14873 *	US-PATENT-CLASS-244-1SS	c 14	N73-27378 *	US-PATENT-CLASS-244-158-A	c 37	N85-30335 *
US-PATENT-CLASS-239-265.19	c 28	N71-21493 *	US-PATENT-CLASS-244-1SS	c 31	N73-30829 *	US-PATENT-CLASS-244-158-A	c 05	N86-19310 *
US-PATENT-CLASS-239-265.19	c 28	N72-11708 *	US-PATENT-CLASS-244-1SS	c 31	N73-32750 *	US-PATENT-CLASS-244-158-R	c 05	N86-19310 *
US-PATENT-CLASS-239-265.25	c 07	N78-27121 *	US-PATENT-CLASS-244-1SS	c 33	N73-32818 *	US-PATENT-CLASS-244-158-R	c 18	N86-20469 *
US-PATENT-CLASS-239-265.25	c 09	N78-31129 *	US-PATENT-CLASS-244-1SS	c 18	N74-22136 *	US-PATENT-CLASS-244-158A	c 27	N82-24339 *
US-PATENT-CLASS-239-265.33	c 07	N78-27121 *	US-PATENT-CLASS-244-1SS	c 18	N74-27397 *	US-PATENT-CLASS-244-158A	c 24	N82-29456 *
US-PATENT-CLASS-239-265.33	c 07	N80-32392 *	US-PATENT-CLASS-244-1SS	c 73	N75-30876 *	US-PATENT-CLASS-244-158A	c 27	N82-32417 *
US-PATENT-CLASS-239-265.39	c 07	N79-14097 *	US-PATENT-CLASS-244-100	c 15	N70-34850 *	US-PATENT-CLASS-244-158A	c 24	N83-13172 *
US-PATENT-CLASS-239-265.43	c 28	N71-16224 *	US-PATENT-CLASS-244-100	c 31	N70-36654 *	US-PATENT-CLASS-244-158A	c 16	N84-22601 *
US-PATENT-CLASS-239-265.43	c 28	N72-11708 *	US-PATENT-CLASS-244-100	c 31	N70-36845 *	US-PATENT-CLASS-244-158A	c 27	N84-27886 *
US-PATENT-CLASS-239-288	c 37	N79-22474 *	US-PATENT-CLASS-244-100	c 02	N70-41589 *	US-PATENT-CLASS-244-158R	c 31	N81-25258 *
US-PATENT-CLASS-239-288	c 37	N85-29283 *	US-PATENT-CLASS-244-103R	c 37	N81-24443 *	US-PATENT-CLASS-244-158R	c 16	N84-27784 *
US-PATENT-CLASS-239-302	c 37	N80-10494 *	US-PATENT-CLASS-244-103	c 02	N70-36825 *	US-PATENT-CLASS-244-158R	c 18	N85-29991 *
US-PATENT-CLASS-239-322	c 37	N85-29283 *	US-PATENT-CLASS-244-110B	c 07	N82-26293 *	US-PATENT-CLASS-244-158R	c 37	N85-34401 *
US-PATENT-CLASS-239-327	c 37	N85-29283 *	US-PATENT-CLASS-244-110C	c 37	N82-18601 *	US-PATENT-CLASS-244-158R	c 37	N87-17036 *
US-PATENT-CLASS-239-375	c 37	N85-29283 *	US-PATENT-CLASS-244-113	c 02	N70-37939 *	US-PATENT-CLASS-244-158	c 37	N76-22540 *
US-PATENT-CLASS-239-402.5	c 07	N85-35195 *	US-PATENT-CLASS-244-113	c 31	N71-25434 *	US-PATENT-CLASS-244-158	c 27	N79-12221 *
US-PATENT-CLASS-239-403	c 20	N87-14420 *	US-PATENT-CLASS-244-113	c 02	N77-10001 *	US-PATENT-CLASS-244-159	c 18	N79-11108 *
US-PATENT-CLASS-239-416	c 15	N69-23185 *	US-PATENT-CLASS-244-113	c 37	N82-16408 *	US-PATENT-CLASS-244-159	c 07	N83-20944 *
US-PATENT-CLASS-239-416	c 15	N71-17654 *	US-PATENT-CLASS-244-113	c 08	N85-35200 *	US-PATENT-CLASS-244-159	c 31	N83-31895 *
US-PATENT-CLASS-239-418	c 28	N72-23809 *	US-PATENT-CLASS-244-114R	c 04	N82-16059 *	US-PATENT-CLASS-244-159	c 18	N86-24729 *
US-PATENT-CLASS-239-424	c 15	N72-25455 *	US-PATENT-CLASS-244-114	c 21	N72-22619 *	US-PATENT-CLASS-244-159	c 37	N86-25789 *
US-PATENT-CLASS-239-425	c 20	N87-14420 *	US-PATENT-CLASS-244-115	c 18	N83-29303 *	US-PATENT-CLASS-244-15	c 05	N75-25914 *
US-PATENT-CLASS-239-426	c 34	N84-12406 *	US-PATENT-CLASS-244-117A	c 33	N73-25952 *	US-PATENT-CLASS-244-160	c 27	N79-12221 *
US-PATENT-CLASS-239-426	c 34	N87-21255 *	US-PATENT-CLASS-244-117A	c 34	N76-17317 *	US-PATENT-CLASS-244-160	c 43	N81-17499 *
US-PATENT-CLASS-239-433	c 28	N72-23809 *	US-PATENT-CLASS-244-117A	c 37	N76-19437 *	US-PATENT-CLASS-244-160	c 14	N81-26161 *
US-PATENT-CLASS-239-433	c 37	N87-24689 *	US-PATENT-CLASS-244-117A	c 34	N77-18382 *	US-PATENT-CLASS-244-160	c 27	N82-24339 *
US-PATENT-CLASS-239-434	c 34	N87-21255 *	US-PATENT-CLASS-244-117A	c 05	N81-26114 *	US-PATENT-CLASS-244-160	c 27	N82-29456 *
US-PATENT-CLASS-239-499	c 34	N82-13376 *	US-PATENT-CLASS-244-117A	c 27	N84-27886 *	US-PATENT-CLASS-244-161	c 18	N76-14186 *
US-PATENT-CLASS-239-543	c 28	N72-23809 *	US-PATENT-CLASS-244-117	c 31	N70-33242 *	US-PATENT-CLASS-244-161	c 37	N76-22540 *
US-PATENT-CLASS-239-545	c 34	N87-21255 *	US-PATENT-CLASS-244-117	c 33	N72-17947 *	US-PATENT-CLASS-244-161	c 37	N77-23483 *
US-PATENT-CLASS-239-562	c 43	N81-26509 *	US-PATENT-CLASS-244-118.1	c 08	N82-32373 *	US-PATENT-CLASS-244-161	c 15	N78-25119 *
US-PATENT-CLASS-239-568	c 37	N84-16561 *	US-PATENT-CLASS-244-118.1	c 18	N85-29991 *	US-PATENT-CLASS-244-161	c 37	N80-14398 *
US-PATENT-CLASS-239-589	c 34	N82-13376 *	US-PATENT-CLASS-244-118.1	c 37	N85-34401 *	US-PATENT-CLASS-244-161	c 37	N81-14320 *
US-PATENT-CLASS-239-590	c 37	N85-29283 *	US-PATENT-CLASS-244-118.1	c 05	N87-14314 *	US-PATENT-CLASS-244-161	c 37	N81-27519 *
US-PATENT-CLASS-239-591	c 43	N81-26509 *	US-PATENT-CLASS-244-119	c 02	N81-14968 *	US-PATENT-CLASS-244-161	c 18	N83-29303 *
US-PATENT-CLASS-239-596	c 37	N87-24689 *	US-PATENT-CLASS-244-119	c 24	N82-24296 *	US-PATENT-CLASS-244-161	c 18	N84-22605 *
US-PATENT-CLASS-239-600	c 37	N87-24689 *	US-PATENT-CLASS-244-119	c 24	N82-26384 *	US-PATENT-CLASS-244-161	c 16	N86-26352 *
US-PATENT-CLASS-239-601	c 34	N82-13376 *	US-PATENT-CLASS-244-119	c 24	N84-11214 *	US-PATENT-CLASS-244-161	c 37	N87-25582 *
US-PATENT-CLASS-239-690	c 28	N82-18401 *	US-PATENT-CLASS-244-12.5	c 08	N81-19130 *	US-PATENT-CLASS-244-162	c 18	N75-19329 *
US-PATENT-CLASS-24-126	c 15	N71-22994 *	US-PATENT-CLASS-244-121	c 27	N79-12221 *	US-PATENT-CLASS-244-162	c 18	N76-17185 *
US-PATENT-CLASS-24-134R	c 15	N73-25512 *	US-PATENT-CLASS-244-121	c 24	N79-25142 *	US-PATENT-CLASS-244-163	c 37	N76-19437 *
US-PATENT-CLASS-24-205.17	c 15	N71-25975 *	US-PATENT-CLASS-244-121	c 15	N79-26100 *	US-PATENT-CLASS-244-163	c 24	N79-25142 *
US-PATENT-CLASS-24-211N	c 15	N72-11385 *	US-PATENT-CLASS-244-121	c 27	N82-24339 *	US-PATENT-CLASS-244-163	c 34	N79-31523 *
US-PATENT-CLASS-24-211	c 15	N71-17653 *	US-PATENT-CLASS-244-121	c 27	N82-29456 *	US-PATENT-CLASS-244-163	c 05	N81-26114 *
US-PATENT-CLASS-24-214	c 31	N83-31895 *	US-PATENT-CLASS-244-121	c 37	N87-17036 *	US-PATENT-CLASS-244-163	c 37	N82-16408 *
US-PATENT-CLASS-24-263	c 15	N71-21076 *	US-PATENT-CLASS-244-122	c 05	N71-20718 *	US-PATENT-CLASS-244-163	c 27	N82-29456 *
US-PATENT-CLASS-24-263	c 15	N71-26162 *	US-PATENT-CLASS-244-123	c 24	N77-28225 *	US-PATENT-CLASS-244-163	c 35	N85-29214 *
US-PATENT-CLASS-24-304	c 27	N85-20125 *	US-PATENT-CLASS-244-123	c 24	N82-24296 *	US-PATENT-CLASS-244-165	c 15	N76-14158 *
US-PATENT-CLASS-24-447	c 27	N85-20125 *	US-PATENT-CLASS-244-123	c 24	N82-26384 *	US-PATENT-CLASS-244-165	c 35	N77-20399 *
US-PATENT-CLASS-24-450	c 27	N85-20125 *	US-PATENT-CLASS-244-123	c 24	N84-11214 *	US-PATENT-CLASS-244-165	c 35	N80-21719 *
US-PATENT-CLASS-24-560	c 52	N84-28388 *	US-PATENT-CLASS-244-127	c 34	N74-23039 *	US-PATENT-CLASS-244-167	c 15	N78-25119 *
US-PATENT-CLASS-24-693	c 27	N85-20125 *	US-PATENT-CLASS-244-12	c 02	N70-33332 *	US-PATENT-CLASS-244-168	c 04	N82-23231 *
US-PATENT-CLASS-240-1.2	c 11	N70-33329 *	US-PATENT-CLASS-244-130	c 02	N77-10001 *	US-PATENT-CLASS-244-169	c 15	N77-10113 *
US-PATENT-CLASS-240-11.2	c 09	N71-26787 *	US-PATENT-CLASS-244-130	c 02	N81-14968 *	US-PATENT-CLASS-244-169	c 18	N83-28064 *
US-PATENT-CLASS-240-11.4	c 09	N71-26787 *	US-PATENT-CLASS-244-130	c 37	N81-24443 *	US-PATENT-CLASS-244-169	c 20	N86-26368 *
US-PATENT-CLASS-240-41.35R	c 74	N77-21941 *	US-PATENT-CLASS-244-130	c 02	N87-16793 *	US-PATENT-CLASS-244-16	c 02	N70-41863 *
US-PATENT-CLASS-240-41B	c 36	N75-27364 *	US-PATENT-CLASS-244-130	c 07	N87-16828 *	US-PATENT-CLASS-244-17.13	c 02	N73-19004 *
US-PATENT-CLASS-240-41R	c 74	N77-21941 *	US-PATENT-CLASS-244-132	c 24	N82-26384 *	US-PATENT-CLASS-244-17.13	c 08	N79-23097 *
US-PATENT-CLASS-240-46.13	c 74	N77-21941 *	US-PATENT-CLASS-244-132	c 24	N82-32417 *	US-PATENT-CLASS-244-17.25	c 05	N81-19087 *
US-PATENT-CLASS-240-47	c 34	N74-23066 *	US-PATENT-CLASS-244-134-D	c 33	N86-20671 *	US-PATENT-CLASS-244-17.27	c 05	N87-14314 *
US-PATENT-CLASS-240-51.11	c 09	N71-26787 *	US-PATENT-CLASS-244-134-D	c 33	N87-28833 *	US-PATENT-CLASS-244-170	c 35	N80-21719 *
US-PATENT-CLASS-241-95	c 37	N84-16561 *	US-PATENT-CLASS-244-135R	c 34	N76-17317 *	US-PATENT-CLASS-244-170	c 18	N83-28064 *
US-PATENT-CLASS-242-107	c 33	N86-20669 *	US-PATENT-CLASS-244-135R	c 20	N80-10278 *	US-PATENT-CLASS-244-171	c 15	N77-10113 *
US-PATENT-CLASS-242-128	c 15	N82-24272 *	US-PATENT-CLASS-244-135	c 31	N70-42015 *	US-PATENT-CLASS-244-171	c 35	N77-20399 *
US-PATENT-CLASS-242-187	c 37	N77-14479 *	US-PATENT-CLASS-244-135	c 15	N73-12486 *	US-PATENT-CLASS-244-172	c 18	N76-17185 *
US-PATENT-CLASS-242-192	c 14	N71-23698 *	US-PATENT-CLASS-244-135	c 14	N73-27378 *	US-PATENT-CLASS-244-172	c 16	N84-27784 *
US-PATENT-CLASS-242-193	c 37	N77-14479 *	US-PATENT-CLASS-244-137-A	c 05	N87-14314 *	US-PATENT-CLASS-244-172	c 18	N84-27787 *
US-PATENT-CLASS-242-204	c 37	N77-14479 *	US-PATENT-CLASS-244-137P	c 31	N73-26876 *	US-PATENT-CLASS-244-172	c 05	N86-19310 *
US-PATENT-CLASS-242-210	c 37	N77-14479 *	US-PATENT-CLASS-244-137P	c 37	N76-22540 *	US-PATENT-CLASS-244-173	c 44	N75-32581 *
US-PATENT-CLASS-242-54-R	c 33	N86-20669 *	US-PATENT-CLASS-244-137P	c 01	N83-35992 *	US-PATENT-CLASS-244-173	c 37	N81-15364 *
US-PATENT-CLASS-242-54	c 15	N72-18477 *	US-PATENT-CLASS-244-137R	c 08	N82-32373 *	US-PATENT-CLASS-244-173	c 07	N83-20944 *
US-PATENT-CLASS-242-55.19	c 14	N70-41647 *	US-PATENT-CLASS-244-138	c 01	N69-39981 *	US-PATENT-CLASS-244-173	c 37	N86-25789 *
US-PATENT-CLASS-242-55.19	c 07	N71-10609 *	US-PATENT-CLASS-244-138	c 02	N70-41630 *	US-PATENT-CLASS-244-175	c 04	N82-23231 *
US-PATENT-CLASS-242-57	c 37	N77-14479 *	US-PATENT-CLASS-244-138	c 31	N71-16085 *	US-PATENT-CLASS-244-181	c 08	N81-24106 *
US-PATENT-CLASS-244-12.2	c 05	N82-26277 *	US-PATENT-CLASS-244-138	c 31	N71-25434 *	US-PATENT-CLASS-244-181	c 08	N81-26152 *
US-PATENT-CLASS-244-1SS	c 03	N72-20031 *	US-PATENT-CLASS-244-138	c 31	N71-28851 *	US-PATENT-CLASS-244-181	c 06	N86-27280 *
US-PATENT-CLASS-244-1.55	c 03	N73-20040 *	US-PATENT-CLASS-244-139	c 31	N73-13898 *	US-PATENT-CLASS-244-182	c 08	N81-26152 *
US-PATENT-CLASS-244-1-R	c 06	N87-22678 *	US-PATENT-CLASS-244-139	c 02	N76-16014 *	US-PATENT-CLASS-244-190	c 04	N82-23231 *
US-PATENT-CLASS-244-1A	c 33	N77-10429 *	US-PATENT-CLASS-244-139	c 05	N85-21147 *	US-PATENT-CLASS-244-194	c 60	N82-29013 *
US-PATENT-CLASS-244-1R	c 34	N79-31523 *	US-PATENT-CLASS-244-139	c 08	N85-35200 *	US-PATENT-CLASS-244-195	c 08	N79-23097 *
US-PATENT-CLASS-244-1SA	c 21	N72-21624 *	US-PATENT-CLASS-244-139	c 01	N71-23497 *	US-PATENT-CLASS-244-195	c 08	N81-24106 *
US-PATENT-CLASS-244-1SA	c 21	N72-25595 *	US-PATENT-CLASS-244-13	c 02	N73-26005 *	US-PATENT-CLASS-244-199	c 07	N85-35194 *
US-PATENT-CLASS-244-1SA	c 03	N73-20039 *	US-PATENT-CLASS-244-13	c 05	N75-25914 *	US-PATENT-CLASS-244-1	c 31	N69-27499 *

US-PATENT-CLASS-244-1	c 03	N70-33343 *	US-PATENT-CLASS-244-35A	c 02	N84-11136 *	US-PATENT-CLASS-248-178	c 37	N78-27425 *
US-PATENT-CLASS-244-1	c 33	N70-33344 *	US-PATENT-CLASS-244-35R	c 02	N76-22154 *	US-PATENT-CLASS-248-183	c 14	N71-26627 *
US-PATENT-CLASS-244-1	c 03	N70-34157 *	US-PATENT-CLASS-244-35R	c 02	N84-11136 *	US-PATENT-CLASS-248-183	c 15	N72-11386 *
US-PATENT-CLASS-244-1	c 31	N70-34176 *	US-PATENT-CLASS-244-35R	c 02	N84-22732 *	US-PATENT-CLASS-248-186	c 37	N78-27425 *
US-PATENT-CLASS-244-1	c 21	N70-34295 *	US-PATENT-CLASS-244-35R	c 02	N87-16793 *	US-PATENT-CLASS-248-188.4	c 15	N72-27484 *
US-PATENT-CLASS-244-1	c 31	N70-34296 *	US-PATENT-CLASS-244-35	c 01	N71-13410 *	US-PATENT-CLASS-248-188.9	c 31	N70-34159 *
US-PATENT-CLASS-244-1	c 21	N70-35395 *	US-PATENT-CLASS-244-40R	c 02	N76-22154 *	US-PATENT-CLASS-248-18	c 14	N69-27486 *
US-PATENT-CLASS-244-1	c 31	N70-36410 *	US-PATENT-CLASS-244-42CG	c 33	N77-10429 *	US-PATENT-CLASS-248-18	c 15	N72-11391 *
US-PATENT-CLASS-244-1	c 33	N70-36617 *	US-PATENT-CLASS-244-42DA	c 05	N75-25914 *	US-PATENT-CLASS-248-20	c 15	N72-11391 *
US-PATENT-CLASS-244-1	c 21	N70-36943 *	US-PATENT-CLASS-244-42	c 02	N70-42016 *	US-PATENT-CLASS-248-228	c 37	N84-16560 *
US-PATENT-CLASS-244-1	c 31	N70-37924 *	US-PATENT-CLASS-244-42	c 02	N71-26110 *	US-PATENT-CLASS-248-22	c 19	N76-22284 *
US-PATENT-CLASS-244-1	c 31	N70-37938 *	US-PATENT-CLASS-244-43	c 02	N70-33255 *	US-PATENT-CLASS-248-23	c 18	N74-27397 *
US-PATENT-CLASS-244-1	c 31	N70-37996 *	US-PATENT-CLASS-244-43	c 02	N71-11043 *	US-PATENT-CLASS-248-278	c 15	N72-11386 *
US-PATENT-CLASS-244-1	c 31	N70-38676 *	US-PATENT-CLASS-244-44	c 02	N71-11038 *	US-PATENT-CLASS-248-27	c 15	N71-20813 *
US-PATENT-CLASS-244-1	c 30	N70-40016 *	US-PATENT-CLASS-244-45A	c 05	N78-32086 *	US-PATENT-CLASS-248-316.4	c 37	N87-21333 *
US-PATENT-CLASS-244-1	c 31	N70-41373 *	US-PATENT-CLASS-244-45R	c 05	N84-12154 *	US-PATENT-CLASS-248-317	c 11	N69-27466 *
US-PATENT-CLASS-244-1	c 31	N70-41588 *	US-PATENT-CLASS-244-45	c 02	N71-12243 *	US-PATENT-CLASS-248-346	c 14	N70-39898 *
US-PATENT-CLASS-244-1	c 31	N70-41631 *	US-PATENT-CLASS-244-46	c 02	N70-33266 *	US-PATENT-CLASS-248-358R	c 37	N75-18573 *
US-PATENT-CLASS-244-1	c 31	N70-41855 *	US-PATENT-CLASS-244-46	c 02	N70-33286 *	US-PATENT-CLASS-248-358R	c 19	N76-22284 *
US-PATENT-CLASS-244-1	c 21	N70-41856 *	US-PATENT-CLASS-244-46	c 02	N70-34178 *	US-PATENT-CLASS-248-358	c 15	N70-40156 *
US-PATENT-CLASS-244-1	c 31	N70-42075 *	US-PATENT-CLASS-244-46	c 02	N70-34858 *	US-PATENT-CLASS-248-358	c 23	N71-15673 *
US-PATENT-CLASS-244-1	c 03	N71-11058 *	US-PATENT-CLASS-244-46	c 31	N70-38010 *	US-PATENT-CLASS-248-358	c 15	N71-24694 *
US-PATENT-CLASS-244-1	c 33	N71-14035 *	US-PATENT-CLASS-244-46	c 02	N70-38011 *	US-PATENT-CLASS-248-36.3	c 37	N78-17383 *
US-PATENT-CLASS-244-1	c 21	N71-14132 *	US-PATENT-CLASS-244-46	c 02	N71-11041 *	US-PATENT-CLASS-248-360	c 15	N71-17649 *
US-PATENT-CLASS-244-1	c 21	N71-14159 *	US-PATENT-CLASS-244-46	c 02	N73-26005 *	US-PATENT-CLASS-248-361	c 05	N71-28619 *
US-PATENT-CLASS-244-1	c 21	N71-15583 *	US-PATENT-CLASS-244-46	c 05	N76-29217 *	US-PATENT-CLASS-248-362	c 37	N76-21554 *
US-PATENT-CLASS-244-1	c 31	N71-15663 *	US-PATENT-CLASS-244-46	c 05	N78-32086 *	US-PATENT-CLASS-248-363	c 37	N76-21554 *
US-PATENT-CLASS-244-1	c 31	N71-15674 *	US-PATENT-CLASS-244-46	c 08	N79-14108 *	US-PATENT-CLASS-248-425	c 37	N82-21587 *
US-PATENT-CLASS-244-1	c 31	N71-15676 *	US-PATENT-CLASS-244-48	c 05	N79-12061 *	US-PATENT-CLASS-248-487	c 15	N72-11386 *
US-PATENT-CLASS-244-1	c 02	N71-16087 *	US-PATENT-CLASS-244-48	c 05	N82-28279 *	US-PATENT-CLASS-248-503	c 18	N85-29991 *
US-PATENT-CLASS-244-1	c 31	N71-16222 *	US-PATENT-CLASS-244-49	c 43	N81-17499 *	US-PATENT-CLASS-248-550	c 37	N85-34401 *
US-PATENT-CLASS-244-1	c 31	N71-16345 *	US-PATENT-CLASS-244-4	c 05	N69-21380 *	US-PATENT-CLASS-248-550	c 37	N87-21333 *
US-PATENT-CLASS-244-1	c 31	N71-16346 *	US-PATENT-CLASS-244-4	c 05	N71-12336 *	US-PATENT-CLASS-248-555	c 18	N85-29991 *
US-PATENT-CLASS-244-1	c 31	N71-17679 *	US-PATENT-CLASS-244-4	c 28	N71-27585 *	US-PATENT-CLASS-248-636	c 35	N83-32026 *
US-PATENT-CLASS-244-1	c 15	N71-17693 *	US-PATENT-CLASS-244-50	c 02	N70-34160 *	US-PATENT-CLASS-248-638	c 35	N83-32026 *
US-PATENT-CLASS-244-1	c 31	N71-17729 *	US-PATENT-CLASS-244-51	c 02	N70-34856 *	US-PATENT-CLASS-248-638	c 05	N87-14314 *
US-PATENT-CLASS-244-1	c 15	N71-19214 *	US-PATENT-CLASS-244-52	c 08	N81-19130 *	US-PATENT-CLASS-248	c 25	N79-28253 *
US-PATENT-CLASS-244-1	c 03	N71-20273 *	US-PATENT-CLASS-244-53A	c 07	N78-18066 *	US-PATENT-CLASS-249-144	c 31	N75-13111 *
US-PATENT-CLASS-244-1	c 31	N71-20396 *	US-PATENT-CLASS-244-53B	c 02	N74-20646 *	US-PATENT-CLASS-249-145	c 31	N74-32920 *
US-PATENT-CLASS-244-1	c 31	N71-21064 *	US-PATENT-CLASS-244-53B	c 07	N75-24736 *	US-PATENT-CLASS-249-145	c 31	N75-13111 *
US-PATENT-CLASS-244-1	c 14	N71-21082 *	US-PATENT-CLASS-244-53B	c 07	N77-18154 *	US-PATENT-CLASS-249-184	c 31	N74-32920 *
US-PATENT-CLASS-244-1	c 21	N71-21708 *	US-PATENT-CLASS-244-53B	c 05	N79-24976 *	US-PATENT-CLASS-249-59	c 31	N75-13111 *
US-PATENT-CLASS-244-1	c 31	N71-21881 *	US-PATENT-CLASS-244-53B	c 85	N82-33288 *	US-PATENT-CLASS-249-83	c 31	N74-32920 *
US-PATENT-CLASS-244-1	c 33	N71-22792 *	US-PATENT-CLASS-244-53R	c 05	N84-12154 *	US-PATENT-CLASS-249-95	c 31	N74-32920 *
US-PATENT-CLASS-244-1	c 31	N71-22968 *	US-PATENT-CLASS-244-53	c 28	N71-15563 *	US-PATENT-CLASS-250-156	c 15	N71-16076 *
US-PATENT-CLASS-244-1	c 31	N71-22969 *	US-PATENT-CLASS-244-54	c 07	N78-18066 *	US-PATENT-CLASS-250-105	c 14	N70-40240 *
US-PATENT-CLASS-244-1	c 31	N71-23009 *	US-PATENT-CLASS-244-54	c 07	N79-14096 *	US-PATENT-CLASS-250-105	c 14	N73-30389 *
US-PATENT-CLASS-244-1	c 14	N71-23040 *	US-PATENT-CLASS-244-55	c 02	N73-26005 *	US-PATENT-CLASS-250-199	c 16	N69-27491 *
US-PATENT-CLASS-244-1	c 31	N71-23912 *	US-PATENT-CLASS-244-55	c 05	N75-25914 *	US-PATENT-CLASS-250-199	c 07	N71-12389 *
US-PATENT-CLASS-244-1	c 31	N71-24315 *	US-PATENT-CLASS-244-55	c 05	N84-12154 *	US-PATENT-CLASS-250-199	c 16	N71-22895 *
US-PATENT-CLASS-244-1	c 15	N71-24600 *	US-PATENT-CLASS-244-55	c 07	N85-35194 *	US-PATENT-CLASS-250-199	c 16	N71-25914 *
US-PATENT-CLASS-244-1	c 05	N71-24728 *	US-PATENT-CLASS-244-55	c 07	N87-16828 *	US-PATENT-CLASS-250-199	c 16	N71-27183 *
US-PATENT-CLASS-244-1	c 33	N71-25353 *	US-PATENT-CLASS-244-57	c 15	N71-26611 *	US-PATENT-CLASS-250-199	c 16	N71-28963 *
US-PATENT-CLASS-244-1	c 31	N71-25434 *	US-PATENT-CLASS-244-63	c 09	N77-19076 *	US-PATENT-CLASS-250-199	c 16	N73-16536 *
US-PATENT-CLASS-244-1	c 31	N71-26537 *	US-PATENT-CLASS-244-63	c 14	N81-26161 *	US-PATENT-CLASS-250-199	c 07	N73-26119 *
US-PATENT-CLASS-244-1	c 15	N71-26611 *	US-PATENT-CLASS-244-63	c 16	N84-27784 *	US-PATENT-CLASS-250-199	c 74	N76-18913 *
US-PATENT-CLASS-244-1	c 28	N71-27095 *	US-PATENT-CLASS-244-63	c 18	N84-27787 *	US-PATENT-CLASS-250-199	c 74	N76-30053 *
US-PATENT-CLASS-244-1	c 21	N71-27324 *	US-PATENT-CLASS-244-75-R	c 08	N85-35200 *	US-PATENT-CLASS-250-199	c 74	N77-26942 *
US-PATENT-CLASS-244-1	c 33	N71-28903 *	US-PATENT-CLASS-244-75A	c 02	N73-26004 *	US-PATENT-CLASS-250-199	c 32	N77-28346 *
US-PATENT-CLASS-244-1	c 15	N71-28936 *	US-PATENT-CLASS-244-75R	c 05	N75-12930 *	US-PATENT-CLASS-250-199	c 60	N77-32731 *
US-PATENT-CLASS-244-1	c 31	N71-29050 *	US-PATENT-CLASS-244-75R	c 05	N85-21147 *	US-PATENT-CLASS-250-199	c 74	N78-14889 *
US-PATENT-CLASS-244-1	c 31	N71-33160 *	US-PATENT-CLASS-244-76-R	c 08	N87-20999 *	US-PATENT-CLASS-250-201	c 14	N70-40238 *
US-PATENT-CLASS-244-200	c 02	N87-16793 *	US-PATENT-CLASS-244-76C	c 02	N73-26004 *	US-PATENT-CLASS-250-201	c 35	N75-15014 *
US-PATENT-CLASS-244-204	c 02	N87-16793 *	US-PATENT-CLASS-244-76	c 21	N70-34539 *	US-PATENT-CLASS-250-201	c 74	N78-17866 *
US-PATENT-CLASS-244-212	c 05	N84-22551 *	US-PATENT-CLASS-244-76	c 02	N71-13422 *	US-PATENT-CLASS-250-203R	c 14	N72-27409 *
US-PATENT-CLASS-244-213	c 08	N82-24205 *	US-PATENT-CLASS-244-76	c 02	N71-20570 *	US-PATENT-CLASS-250-203R	c 14	N73-25462 *
US-PATENT-CLASS-244-214	c 08	N85-19985 *	US-PATENT-CLASS-244-77A	c 04	N74-13420 *	US-PATENT-CLASS-250-203R	c 14	N73-28490 *
US-PATENT-CLASS-244-215	c 05	N84-22551 *	US-PATENT-CLASS-244-77B	c 04	N74-13420 *	US-PATENT-CLASS-250-203R	c 21	N73-30640 *
US-PATENT-CLASS-244-216	c 05	N84-22551 *	US-PATENT-CLASS-244-77D	c 02	N73-19004 *	US-PATENT-CLASS-250-203R	c 19	N74-15089 *
US-PATENT-CLASS-244-217	c 37	N82-16408 *	US-PATENT-CLASS-244-77F	c 02	N73-26004 *	US-PATENT-CLASS-250-203R	c 89	N74-30886 *
US-PATENT-CLASS-244-218	c 05	N78-32086 *	US-PATENT-CLASS-244-77G	c 02	N73-26004 *	US-PATENT-CLASS-250-203R	c 35	N77-20401 *
US-PATENT-CLASS-244-218	c 08	N79-14108 *	US-PATENT-CLASS-244-77	c 32	N71-23971 *	US-PATENT-CLASS-250-203R	c 74	N77-22951 *
US-PATENT-CLASS-244-219	c 05	N84-22551 *	US-PATENT-CLASS-244-78	c 08	N82-24205 *	US-PATENT-CLASS-250-203R	c 44	N81-24520 *
US-PATENT-CLASS-244-226	c 08	N82-24205 *	US-PATENT-CLASS-244-79	c 04	N76-26175 *	US-PATENT-CLASS-250-203R	c 32	N83-18975 *
US-PATENT-CLASS-244-23A	c 21	N72-25595 *	US-PATENT-CLASS-244-82	c 05	N79-12061 *	US-PATENT-CLASS-250-203R	c 47	N83-32232 *
US-PATENT-CLASS-244-23C	c 05	N82-26277 *	US-PATENT-CLASS-244-83G	c 08	N79-23097 *	US-PATENT-CLASS-250-203X	c 16	N72-13437 *
US-PATENT-CLASS-244-23D	c 34	N76-18364 *	US-PATENT-CLASS-244-83R	c 05	N75-12930 *	US-PATENT-CLASS-250-203	c 14	N69-27432 *
US-PATENT-CLASS-244-234	c 08	N86-27288 *	US-PATENT-CLASS-244-83	c 21	N70-33279 *	US-PATENT-CLASS-250-203	c 14	N69-27485 *
US-PATENT-CLASS-244-23	c 02	N71-11039 *	US-PATENT-CLASS-244-83	c 15	N71-23255 *	US-PATENT-CLASS-250-203	c 07	N69-39736 *
US-PATENT-CLASS-244-2	c 14	N81-26161 *	US-PATENT-CLASS-244-83	c 31	N71-33160 *	US-PATENT-CLASS-250-203	c 14	N70-34158 *
US-PATENT-CLASS-244-2	c 18	N84-27787 *	US-PATENT-CLASS-244-83	c 08	N74-10942 *	US-PATENT-CLASS-250-203	c 21	N70-35089 *
US-PATENT-CLASS-244-3.14	c 31	N71-17691 *	US-PATENT-CLASS-244-87	c 08	N81-19130 *	US-PATENT-CLASS-250-203	c 14	N70-40239 *
US-PATENT-CLASS-244-3.16	c 19	N74-15089 *	US-PATENT-CLASS-244-90R	c 08	N74-30421 *	US-PATENT-CLASS-250-203	c 21	N71-10678 *
US-PATENT-CLASS-244-3.21	c 30	N72-17873 *	US-PATENT-CLASS-244-90R	c 05	N79-12061 *	US-PATENT-CLASS-250-203	c 21	N71-10771 *
US-PATENT-CLASS-244-3.21	c 15	N76-14158 *	US-PATENT-CLASS-244-90R	c 08	N79-14108 *	US-PATENT-CLASS-250-203	c 21	N71-15642 *
US-PATENT-CLASS-244-3.21	c 15	N77-10113 *	US-PATENT-CLASS-244-90R	c 08	N85-19985 *	US-PATENT-CLASS-250-203	c 14	N71-19568 *
US-PATENT-CLASS-244-3.21	c 35	N77-20399 *	US-PATENT-CLASS-244-90	c 02	N71-27088 *	US-PATENT-CLASS-250-203	c 14	N71-23269 *
US-PATENT-CLASS-244-3.22	c 31	N71-17629 *	US-PATENT-CLASS-244-91	c 08	N74-30421 *	US-PATENT-CLASS-250-203	c 14	N71-23797 *
US-PATENT-CLASS-244-3.22	c 28	N72-22769 *	US-PATENT-CLASS-244-91	c 05	N84-12154 *	US-PATENT-CLASS-250-203	c 14	N72-22444 *
US-PATENT-CLASS-244-3.22	c 20	N76-21275 *	US-PATENT-CLASS-244-93	c 05	N82-26277 *	US-PATENT-CLASS-250-203	c 14	N73-30393 *
US-PATENT-CLASS-244-31	c 02	N71-11037 *	US-PATENT-CLASS-244-161	c 37	N87-22985 *	US-PATENT-CLASS-250-203	c 35	N75-23910 *
US-PATENT-CLASS-244-31	c 31	N71-16081 *	US-PATENT-CLASS-247-171	c 35	N75-23910 *	US-PATENT-CLASS-250-204	c 36	N74-21091 *
US-PATENT-CLASS-244-31	c 34	N74-23039 *	US-PATENT-CLASS-248-119	c 11	N70-35383 *	US-PATENT-CLASS-250-205	c 14	N72-27411 *
US-PATENT-CLASS-244-327	c 08	N74-30421 *	US-PATENT-CLASS-248-14	c 15	N72-17454 *	US-PATENT-CLASS-250-205	c 09	N73-14214 *
US-PATENT-CLASS-244-32	c 02	N73-13008 *	US-PATENT-CLASS-248-16	c 18	N74-27397 *	US-PATENT-CLASS-250-205	c 36	N74-13205 *
US-PATENT-CLASS-244-34A	c 05	N82-26277 *	US-PATENT-CLASS-248-178	c 15	N70-41310 *	US-PATENT-CLASS-250-206	c 10	N71-20782 *

US-PATENT-CLASS-250-207	c 14	N72-17328 *	US-PATENT-CLASS-250-280	c 76	N78-24950 *	US-PATENT-CLASS-250-363R	c 52	N77-14737 *
US-PATENT-CLASS-250-207	c 14	N73-32317 *	US-PATENT-CLASS-250-280	c 74	N80-21140 *	US-PATENT-CLASS-250-363R	c 74	N79-20857 *
US-PATENT-CLASS-250-207	c 33	N74-27682 *	US-PATENT-CLASS-250-281	c 35	N74-34857 *	US-PATENT-CLASS-250-363R	c 74	N84-11920 *
US-PATENT-CLASS-250-208	c 14	N72-20379 *	US-PATENT-CLASS-250-281	c 35	N76-16393 *	US-PATENT-CLASS-250-363S	c 74	N84-11920 *
US-PATENT-CLASS-250-209	c 07	N69-39980 #	US-PATENT-CLASS-250-281	c 36	N77-26477 *	US-PATENT-CLASS-250-363S	c 35	N85-30281 *
US-PATENT-CLASS-250-209	c 20	N71-16340 *	US-PATENT-CLASS-250-281	c 72	N80-14877 *	US-PATENT-CLASS-250-367	c 35	N84-33765 *
US-PATENT-CLASS-250-209	c 10	N72-17173 *	US-PATENT-CLASS-250-282	c 36	N77-26477 *	US-PATENT-CLASS-250-368	c 74	N81-24900 *
US-PATENT-CLASS-250-209	c 14	N72-25409 *	US-PATENT-CLASS-250-282	c 72	N80-14877 *	US-PATENT-CLASS-250-368	c 74	N84-11920 *
US-PATENT-CLASS-250-209	c 14	N73-16483 *	US-PATENT-CLASS-250-282	c 35	N83-27184 *	US-PATENT-CLASS-250-369	c 35	N74-15091 *
US-PATENT-CLASS-250-209	c 14	N73-26432 *	US-PATENT-CLASS-250-283	c 36	N77-26477 *	US-PATENT-CLASS-250-369	c 35	N85-30281 *
US-PATENT-CLASS-250-209	c 14	N73-28490 *	US-PATENT-CLASS-250-287	c 35	N76-15431 *	US-PATENT-CLASS-250-370	c 35	N74-18088 *
US-PATENT-CLASS-250-209	c 21	N73-30640 *	US-PATENT-CLASS-250-287	c 35	N76-16393 *	US-PATENT-CLASS-250-370	c 33	N75-31332 *
US-PATENT-CLASS-250-209	c 44	N81-24520 *	US-PATENT-CLASS-250-288	c 35	N77-32456 *	US-PATENT-CLASS-250-370	c 35	N82-31659 *
US-PATENT-CLASS-250-211J	c 09	N72-17152 *	US-PATENT-CLASS-250-288	c 35	N83-27184 *	US-PATENT-CLASS-250-370	c 44	N82-32841 *
US-PATENT-CLASS-250-211J	c 09	N73-14214 *	US-PATENT-CLASS-250-288	c 35	N87-21660 *	US-PATENT-CLASS-250-370	c 76	N87-13313 *
US-PATENT-CLASS-250-211J	c 35	N74-15090 *	US-PATENT-CLASS-250-288	c 72	N87-21660 *	US-PATENT-CLASS-250-371	c 35	N74-18088 *
US-PATENT-CLASS-250-211K	c 74	N77-22951 *	US-PATENT-CLASS-250-289	c 35	N77-14406 *	US-PATENT-CLASS-250-372	c 19	N74-29410 *
US-PATENT-CLASS-250-211K	c 44	N80-18552 *	US-PATENT-CLASS-250-290	c 35	N77-10492 *	US-PATENT-CLASS-250-372	c 24	N76-24363 *
US-PATENT-CLASS-250-211K	c 08	N86-27288 *	US-PATENT-CLASS-250-291	c 35	N77-10492 *	US-PATENT-CLASS-250-372	c 33	N74-27473 *
US-PATENT-CLASS-250-211R	c 36	N75-19652 *	US-PATENT-CLASS-250-295	c 35	N74-34857 *	US-PATENT-CLASS-250-372	c 35	N83-21311 *
US-PATENT-CLASS-250-211R	c 35	N75-23910 *	US-PATENT-CLASS-250-296	c 35	N84-28016 *	US-PATENT-CLASS-250-372	c 35	N84-33767 *
US-PATENT-CLASS-250-212	c 03	N71-23354 *	US-PATENT-CLASS-250-298	c 35	N77-14406 *	US-PATENT-CLASS-250-373	c 25	N74-26947 *
US-PATENT-CLASS-250-212	c 03	N73-20040 *	US-PATENT-CLASS-250-304	c 25	N74-26947 *	US-PATENT-CLASS-250-373	c 35	N75-30502 *
US-PATENT-CLASS-250-212	c 09	N73-32109 *	US-PATENT-CLASS-250-305	c 72	N84-28575 *	US-PATENT-CLASS-250-373	c 45	N76-17656 *
US-PATENT-CLASS-250-213VT	c 74	N78-18905 *	US-PATENT-CLASS-250-307	c 25	N80-20334 *	US-PATENT-CLASS-250-373	c 36	N87-28006 *
US-PATENT-CLASS-250-214AL	c 74	N79-12890 *	US-PATENT-CLASS-250-308	c 25	N80-20334 *	US-PATENT-CLASS-250-374	c 35	N74-26949 *
US-PATENT-CLASS-250-214A	c 33	N77-14335 *	US-PATENT-CLASS-250-310	c 35	N78-10429 *	US-PATENT-CLASS-250-374	c 35	N85-34374 *
US-PATENT-CLASS-250-214R	c 14	N73-28490 *	US-PATENT-CLASS-250-310	c 33	N80-14332 *	US-PATENT-CLASS-250-379	c 35	N85-34374 *
US-PATENT-CLASS-250-214R	c 74	N79-12890 *	US-PATENT-CLASS-250-311	c 33	N83-18996 *	US-PATENT-CLASS-250-385	c 35	N74-26949 *
US-PATENT-CLASS-250-214	c 14	N73-25462 *	US-PATENT-CLASS-250-320	c 74	N78-15880 *	US-PATENT-CLASS-250-385	c 35	N75-27331 *
US-PATENT-CLASS-250-214	c 14	N73-25462 *	US-PATENT-CLASS-250-322	c 35	N78-15461 *	US-PATENT-CLASS-250-385	c 35	N76-15433 *
US-PATENT-CLASS-250-214	c 35	N74-15090 *	US-PATENT-CLASS-250-330	c 44	N82-32841 *	US-PATENT-CLASS-250-385	c 35	N76-16393 *
US-PATENT-CLASS-250-214	c 33	N82-28545 *	US-PATENT-CLASS-250-332	c 35	N75-19613 *	US-PATENT-CLASS-250-385	c 35	N82-24471 *
US-PATENT-CLASS-250-215	c 14	N73-16483 *	US-PATENT-CLASS-250-332	c 31	N78-25256 *	US-PATENT-CLASS-250-385	c 35	N84-33765 *
US-PATENT-CLASS-250-216	c 74	N79-34011 *	US-PATENT-CLASS-250-332	c 35	N82-31659 *	US-PATENT-CLASS-250-386	c 35	N82-24471 *
US-PATENT-CLASS-250-216	c 74	N82-24072 *	US-PATENT-CLASS-250-332	c 74	N83-19597 *	US-PATENT-CLASS-250-388	c 33	N83-24763 *
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US-PATENT-CLASS-250-83.3H	c 14	N73-25462 *	US-PATENT-CLASS-252-408	c 14	N73-14428 *	US-PATENT-CLASS-260-29.1R	c 24	N78-24290 *
US-PATENT-CLASS-250-83.3R	c 14	N73-12445 *	US-PATENT-CLASS-252-422	c 45	N82-11634 *	US-PATENT-CLASS-260-29.6S	c 27	N74-17283 *
US-PATENT-CLASS-250-83.3R	c 14	N73-20477 *	US-PATENT-CLASS-252-431N	c 06	N73-32029 *	US-PATENT-CLASS-260-29.6	c 26	N75-27125 *
US-PATENT-CLASS-250-83.3R	c 14	N73-32317 *	US-PATENT-CLASS-252-431R	c 06	N73-32029 *	US-PATENT-CLASS-260-2	c 06	N71-11243 *
US-PATENT-CLASS-250-83.3UV	c 10	N72-17173 *	US-PATENT-CLASS-252-472	c 25	N78-10225 *	US-PATENT-CLASS-260-2	c 06	N71-20905 *
US-PATENT-CLASS-250-83.3UV	c 14	N72-25409 *	US-PATENT-CLASS-252-514	c 05	N72-25120 *	US-PATENT-CLASS-260-2	c 06	N71-27363 *
US-PATENT-CLASS-250-83.3UV	c 06	N73-16106 *	US-PATENT-CLASS-252-514	c 44	N79-31752 *	US-PATENT-CLASS-260-2	c 06	N73-30102 *
US-PATENT-CLASS-250-83.3	c 21	N70-33181 *	US-PATENT-CLASS-252-514	c 25	N82-26396 *	US-PATENT-CLASS-260-2	c 27	N79-21190 *
US-PATENT-CLASS-250-83.3	c 21	N70-34297 *	US-PATENT-CLASS-252-518	c 24	N79-14156 *	US-PATENT-CLASS-260-30.2	c 06	N73-27980 *
US-PATENT-CLASS-250-83.3	c 14	N71-15599 *	US-PATENT-CLASS-252-549	c 23	N75-14834 *	US-PATENT-CLASS-260-30.4N	c 27	N78-17205 *
US-PATENT-CLASS-250-83.3	c 14	N71-18699 *	US-PATENT-CLASS-252-58	c 18	N70-39897 *	US-PATENT-CLASS-260-30.8DS	c 06	N73-27980 *
US-PATENT-CLASS-250-83.3	c 14	N71-21088 *	US-PATENT-CLASS-252-5	c 25	N83-33977 *	US-PATENT-CLASS-260-307G	c 27	N79-22300 *
US-PATENT-CLASS-250-83.3	c 09	N71-22985 *	US-PATENT-CLASS-252-6	c 25	N83-36118 *	US-PATENT-CLASS-260-32.2R	c 27	N78-17205 *
US-PATENT-CLASS-250-83.3	c 14	N71-25901 *	US-PATENT-CLASS-252-62.3E	c 44	N80-24741 *	US-PATENT-CLASS-260-32.6NT	c 27	N78-17205 *
US-PATENT-CLASS-250-83.3	c 14	N71-26475 *	US-PATENT-CLASS-252-62.3E	c 44	N81-19558 *	US-PATENT-CLASS-260-32.6N	c 06	N73-27980 *
US-PATENT-CLASS-250-83.3	c 14	N71-27323 *	US-PATENT-CLASS-252-62.3GA	c 25	N75-26043 *	US-PATENT-CLASS-260-32.6N	c 23	N76-15268 *
US-PATENT-CLASS-250-83.3	c 14	N72-17328 *	US-PATENT-CLASS-252-62.3	c 26	N71-23292 *	US-PATENT-CLASS-260-32.8N	c 23	N76-15268 *
US-PATENT-CLASS-250-83.3	c 35	N75-27329 *	US-PATENT-CLASS-252-62.3	c 76	N76-25049 *	US-PATENT-CLASS-260-326N	c 27	N81-17260 *
US-PATENT-CLASS-250-83.6R	c 14	N71-27090 *	US-PATENT-CLASS-252-62	c 27	N74-27037 *	US-PATENT-CLASS-260-326S	c 27	N81-17260 *
US-PATENT-CLASS-250-83.6R	c 14	N72-20381 *	US-PATENT-CLASS-252-70	c 23	N75-14834 *	US-PATENT-CLASS-260-33.4R	c 06	N73-27980 *
US-PATENT-CLASS-250-83.6R	c 25	N72-33696 *	US-PATENT-CLASS-252-8.1	c 18	N73-26572 *	US-PATENT-CLASS-260-33.4R	c 27	N78-17205 *
US-PATENT-CLASS-250-83.6R	c 74	N81-19898 *	US-PATENT-CLASS-252-8.1	c 27	N74-27037 *	US-PATENT-CLASS-260-33.6PQ	c 24	N78-27180 *
US-PATENT-CLASS-250-83.6	c 10	N70-41991 *	US-PATENT-CLASS-252-8.1	c 24	N78-14096 *	US-PATENT-CLASS-260-33.6R	c 06	N73-27980 *
US-PATENT-CLASS-250-83CD	c 91	N74-13130 *	US-PATENT-CLASS-253-317	c 44	N77-22606 *	US-PATENT-CLASS-260-33.6UB	c 27	N81-15104 *
US-PATENT-CLASS-250-83R	c 14	N73-12445 *	US-PATENT-CLASS-253-39.15	c 15	N70-33226 *			
US-PATENT-CLASS-250-83R	c 14	N73-20477 *	US-PATENT-CLASS-253-39.15	c 15	N70-33264 *			
US-PATENT-CLASS-250-83	c 14	N69-27484 *	US-PATENT-CLASS-253-39.15	c 28	N70-33272 *			
US-PATENT-CLASS-250-83	c 14	N69-39937 *	US-PATENT-CLASS-253-39.1	c 33	N71-29152 *			
US-PATENT-CLASS-250-83	c 09	N71-18830 *	US-PATENT-CLASS-253-66	c 15	N70-36412 *			
US-PATENT-CLASS-250-83	c 05	N71-19440 *	US-PATENT-CLASS-253-66	c 28	N70-39895 *			
US-PATENT-CLASS-250-83	c 14	N71-20430 *	US-PATENT-CLASS-253-77	c 28	N71-28928 *			
US-PATENT-CLASS-250-83	c 14	N71-23401 *	US-PATENT-CLASS-253	c 25	N79-28253 *			
US-PATENT-CLASS-250-83	c 09	N71-27232 *	US-PATENT-CLASS-254-124	c 20	N76-22296 *			
US-PATENT-CLASS-250-84	c 14	N71-24809 *	US-PATENT-CLASS-254-131	c 60	N82-24839 *			
US-PATENT-CLASS-251-118	c 15	N71-18580 *	US-PATENT-CLASS-254-150	c 15	N71-24599 *			
US-PATENT-CLASS-251-11	c 15	N70-35407 *						

US-PATENT-CLASS-260-33.8EP	c 24	N78-27180 *	US-PATENT-CLASS-260-78TF	c 27	N78-32261 *	US-PATENT-CLASS-264-236	c 27	N78-32262 *
US-PATENT-CLASS-260-33.8F	c 27	N76-24405 *	US-PATENT-CLASS-260-78UA	c 06	N73-27980 *	US-PATENT-CLASS-264-236	c 15	N79-29610 *
US-PATENT-CLASS-260-33.8F	c 25	N81-14016 *	US-PATENT-CLASS-260-78	c 06	N71-11235 *	US-PATENT-CLASS-264-236	c 27	N86-29039 *
US-PATENT-CLASS-260-33.8UA	c 24	N78-27180 *	US-PATENT-CLASS-260-78	c 06	N71-11238 *	US-PATENT-CLASS-264-236	c 27	N86-31727 *
US-PATENT-CLASS-260-340.9R	c 23	N82-16174 *	US-PATENT-CLASS-260-830S	c 15	N79-26100 *	US-PATENT-CLASS-264-23	c 71	N78-10837 *
US-PATENT-CLASS-260-346.3	c 23	N75-30256 *	US-PATENT-CLASS-260-85.5	c 06	N71-23500 *	US-PATENT-CLASS-264-23	c 31	N81-15154 *
US-PATENT-CLASS-260-346.3	c 23	N76-15268 *	US-PATENT-CLASS-260-858	c 27	N81-14076 *	US-PATENT-CLASS-264-24	c 31	N81-33319 *
US-PATENT-CLASS-260-346.3	c 23	N80-32515 *	US-PATENT-CLASS-260-877	c 06	N72-22107 *	US-PATENT-CLASS-264-24	c 31	N81-35176 *
US-PATENT-CLASS-260-346.3	c 27	N72-25148 *	US-PATENT-CLASS-260-879	c 27	N76-16228 *	US-PATENT-CLASS-264-257	c 37	N74-18126 *
US-PATENT-CLASS-260-348SC	c 06	N78-24290 *	US-PATENT-CLASS-260-886	c 27	N81-14076 *	US-PATENT-CLASS-264-258	c 24	N81-29163 *
US-PATENT-CLASS-260-37EP	c 24	N78-27180 *	US-PATENT-CLASS-260-8900	c 27	N81-14076 *	US-PATENT-CLASS-264-258	c 27	N83-34041 *
US-PATENT-CLASS-260-37EP	c 24	N79-26100 *	US-PATENT-CLASS-260-895	c 27	N81-14076 *	US-PATENT-CLASS-264-258	c 27	N85-20124 *
US-PATENT-CLASS-260-37EP	c 15	N81-17260 *	US-PATENT-CLASS-260-898	c 27	N81-14076 *	US-PATENT-CLASS-264-259	c 24	N81-29163 *
US-PATENT-CLASS-260-37EP	c 27	N81-17260 *	US-PATENT-CLASS-260-900	c 27	N76-16228 *	US-PATENT-CLASS-264-267	c 37	N76-24575 *
US-PATENT-CLASS-260-37N	c 27	N79-28307 *	US-PATENT-CLASS-260-901	c 27	N81-14076 *	US-PATENT-CLASS-264-27	c 26	N71-17818 *
US-PATENT-CLASS-260-37	c 18	N71-25881 *	US-PATENT-CLASS-260-92.1	c 06	N72-25150 *	US-PATENT-CLASS-264-28	c 15	N73-12489 *
US-PATENT-CLASS-260-37	c 27	N81-24258 *	US-PATENT-CLASS-260-92.1	c 06	N72-25152 *	US-PATENT-CLASS-264-291	c 74	N87-28416 *
US-PATENT-CLASS-260-386	c 25	N82-24312 *	US-PATENT-CLASS-260-92.1	c 06	N76-16228 *	US-PATENT-CLASS-264-294	c 31	N74-31177 *
US-PATENT-CLASS-260-389	c 25	N82-24312 *	US-PATENT-CLASS-260-92.1	c 27	N76-24405 *	US-PATENT-CLASS-264-3R	c 28	N77-10213 *
US-PATENT-CLASS-260-396N	c 27	N74-27037 *	US-PATENT-CLASS-260-92.1	c 27	N80-10358 *	US-PATENT-CLASS-264-3R	c 20	N77-17143 *
US-PATENT-CLASS-260-404.5	c 18	N71-15568 *	US-PATENT-CLASS-260-926	c 27	N86-19376 *	US-PATENT-CLASS-264-304	c 37	N76-31524 *
US-PATENT-CLASS-260-42.17	c 27	N78-17215 *	US-PATENT-CLASS-260-927-N	c 23	N73-32029 *	US-PATENT-CLASS-264-305	c 37	N76-31524 *
US-PATENT-CLASS-260-42.43	c 24	N78-27180 *	US-PATENT-CLASS-260-93.5A	c 06	N73-32029 *	US-PATENT-CLASS-264-308	c 37	N76-31524 *
US-PATENT-CLASS-260-429	c 06	N71-28808 *	US-PATENT-CLASS-260-93.5S	c 06	N73-32029 *	US-PATENT-CLASS-264-310	c 37	N76-31524 *
US-PATENT-CLASS-260-42	c 27	N79-28307 *	US-PATENT-CLASS-260-94.2M	c 06	N73-32029 *	US-PATENT-CLASS-264-311	c 24	N81-29163 *
US-PATENT-CLASS-260-448.2D	c 06	N72-25151 *	US-PATENT-CLASS-260-94.2R	c 06	N73-32029 *	US-PATENT-CLASS-264-318	c 37	N76-31524 *
US-PATENT-CLASS-260-448.2D	c 06	N73-32030 *	US-PATENT-CLASS-260-94.7R	c 06	N73-32029 *	US-PATENT-CLASS-264-331.12	c 27	N85-20124 *
US-PATENT-CLASS-260-448.2N	c 37	N74-21058 *	US-PATENT-CLASS-260-94.8	c 27	N73-32029 *	US-PATENT-CLASS-264-331.19	c 27	N85-20124 *
US-PATENT-CLASS-260-448.2	c 06	N71-23230 *	US-PATENT-CLASS-260-959	c 27	N78-32256 *	US-PATENT-CLASS-264-331.46	c 27	N83-34041 *
US-PATENT-CLASS-260-45.7R	c 24	N78-27180 *	US-PATENT-CLASS-260-96D	c 28	N81-15119 *	US-PATENT-CLASS-264-332	c 37	N76-16230 *
US-PATENT-CLASS-260-45.7R	c 27	N82-16238 *	US-PATENT-CLASS-261-DIG.75	c 34	N77-24423 *	US-PATENT-CLASS-264-332	c 27	N87-28656 *
US-PATENT-CLASS-260-45.75W	c 24	N78-27180 *	US-PATENT-CLASS-261-118	c 31	N80-18231 *	US-PATENT-CLASS-264-332	c 37	N81-25371 *
US-PATENT-CLASS-260-45.7	c 27	N76-24405 *	US-PATENT-CLASS-261-123	c 34	N77-24423 *	US-PATENT-CLASS-264-332	c 27	N87-28656 *
US-PATENT-CLASS-260-45.85N	c 24	N78-27180 *	US-PATENT-CLASS-261-145	c 28	N72-22772 *	US-PATENT-CLASS-264-334	c 37	N76-31524 *
US-PATENT-CLASS-260-45.9R	c 24	N78-27180 *	US-PATENT-CLASS-261-28	c 07	N81-29129 *	US-PATENT-CLASS-264-33	c 44	N79-24432 *
US-PATENT-CLASS-260-46.5E	c 06	N72-25151 *	US-PATENT-CLASS-261-78A	c 35	N86-29174 *	US-PATENT-CLASS-264-342R	c 37	N82-24491 *
US-PATENT-CLASS-260-46.5G	c 06	N72-25151 *	US-PATENT-CLASS-261-79A	c 54	N81-24724 *	US-PATENT-CLASS-264-345	c 71	N78-10837 *
US-PATENT-CLASS-260-46.5P	c 06	N72-25151 *	US-PATENT-CLASS-263-48	c 15	N69-27483 *	US-PATENT-CLASS-264-347	c 27	N86-29039 *
US-PATENT-CLASS-260-46.5R	c 06	N73-26100 *	US-PATENT-CLASS-264-DIG.36	c 18	N73-14584 *	US-PATENT-CLASS-264-34	c 44	N79-24432 *
US-PATENT-CLASS-260-46.5	c 06	N71-11237 *	US-PATENT-CLASS-264-DIG.44	c 15	N72-16329 *	US-PATENT-CLASS-264-35	c 44	N79-24432 *
US-PATENT-CLASS-260-46.5	c 06	N71-11240 *	US-PATENT-CLASS-264-DIG.65	c 27	N85-20124 *	US-PATENT-CLASS-264-36	c 15	N73-12489 *
US-PATENT-CLASS-260-465.5R	c 27	N81-24256 *	US-PATENT-CLASS-264-102	c 15	N71-10672 *	US-PATENT-CLASS-264-3	c 32	N74-27619 *
US-PATENT-CLASS-260-465.5R	c 27	N84-22744 *	US-PATENT-CLASS-264-102	c 15	N73-12489 *	US-PATENT-CLASS-264-4	c 28	N71-26779 *
US-PATENT-CLASS-260-465.6	c 27	N84-22744 *	US-PATENT-CLASS-264-102	c 31	N74-14133 *	US-PATENT-CLASS-264-40.4	c 35	N80-18357 *
US-PATENT-CLASS-260-47CP	c 06	N73-27980 *	US-PATENT-CLASS-264-102	c 31	N74-18126 *	US-PATENT-CLASS-264-40	c 15	N73-12489 *
US-PATENT-CLASS-260-47CP	c 23	N76-15268 *	US-PATENT-CLASS-264-102	c 37	N76-24575 *	US-PATENT-CLASS-264-41	c 25	N81-19244 *
US-PATENT-CLASS-260-47CP	c 27	N78-31232 *	US-PATENT-CLASS-264-102	c 15	N79-26100 *	US-PATENT-CLASS-264-43	c 51	N84-28361 *
US-PATENT-CLASS-260-47CP	c 27	N78-32261 *	US-PATENT-CLASS-264-104	c 05	N72-25120 *	US-PATENT-CLASS-264-453	c 25	N82-21268 *
US-PATENT-CLASS-260-47UP	c 06	N73-32029 *	US-PATENT-CLASS-264-104	c 27	N81-24257 *	US-PATENT-CLASS-264-510	c 44	N79-24432 *
US-PATENT-CLASS-260-47	c 06	N71-28620 *	US-PATENT-CLASS-264-104	c 23	N81-29160 *	US-PATENT-CLASS-264-516	c 44	N79-24432 *
US-PATENT-CLASS-260-47	c 06	N71-28807 *	US-PATENT-CLASS-264-104	c 25	N83-31888 *	US-PATENT-CLASS-264-53	c 25	N82-21268 *
US-PATENT-CLASS-260-485F	c 06	N73-30098 *	US-PATENT-CLASS-264-105	c 27	N81-24257 *	US-PATENT-CLASS-264-59	c 24	N84-16262 *
US-PATENT-CLASS-260-49	c 27	N78-32261 *	US-PATENT-CLASS-264-111	c 17	N71-29137 *	US-PATENT-CLASS-264-5	c 31	N81-33319 *
US-PATENT-CLASS-260-520	c 23	N75-30256 *	US-PATENT-CLASS-264-112	c 27	N85-20124 *	US-PATENT-CLASS-264-5	c 27	N82-28442 *
US-PATENT-CLASS-260-535H	c 06	N72-27144 *	US-PATENT-CLASS-264-118	c 24	N80-26388 *	US-PATENT-CLASS-264-5	c 31	N83-31896 *
US-PATENT-CLASS-260-53	c 27	N79-28307 *	US-PATENT-CLASS-264-118	c 24	N84-16262 *	US-PATENT-CLASS-264-5	c 31	N83-35176 *
US-PATENT-CLASS-260-544-D	c 27	N86-21675 *	US-PATENT-CLASS-264-119	c 24	N80-26388 *	US-PATENT-CLASS-264-5	c 26	N86-32551 *
US-PATENT-CLASS-260-544-P	c 27	N87-14515 *	US-PATENT-CLASS-264-120	c 27	N85-20124 *	US-PATENT-CLASS-264-60	c 27	N76-22376 *
US-PATENT-CLASS-260-544F	c 06	N72-20121 *	US-PATENT-CLASS-264-124	c 24	N80-26388 *	US-PATENT-CLASS-264-60	c 27	N79-14213 *
US-PATENT-CLASS-260-544P	c 27	N86-27450 *	US-PATENT-CLASS-264-129	c 37	N76-31524 *	US-PATENT-CLASS-264-60	c 24	N84-16262 *
US-PATENT-CLASS-260-551P	c 27	N78-32256 *	US-PATENT-CLASS-264-12	c 31	N83-35176 *	US-PATENT-CLASS-264-60	c 27	N87-28656 *
US-PATENT-CLASS-260-566B	c 27	N76-32315 *	US-PATENT-CLASS-264-130	c 27	N78-32262 *	US-PATENT-CLASS-264-63	c 27	N76-22376 *
US-PATENT-CLASS-260-567.6M	c 06	N73-32029 *	US-PATENT-CLASS-264-135	c 37	N74-18126 *	US-PATENT-CLASS-264-63	c 27	N87-28656 *
US-PATENT-CLASS-260-571	c 23	N76-15268 *	US-PATENT-CLASS-264-136	c 37	N74-18126 *	US-PATENT-CLASS-264-65	c 18	N73-14584 *
US-PATENT-CLASS-260-606.5P	c 27	N78-32256 *	US-PATENT-CLASS-264-137	c 27	N79-33316 *	US-PATENT-CLASS-264-65	c 27	N76-22376 *
US-PATENT-CLASS-260-615	c 06	N71-27254 *	US-PATENT-CLASS-264-137	c 27	N81-14078 *	US-PATENT-CLASS-264-70	c 44	N79-24432 *
US-PATENT-CLASS-260-615	c 06	N73-30101 *	US-PATENT-CLASS-264-137	c 27	N81-29229 *	US-PATENT-CLASS-264-71	c 44	N79-24432 *
US-PATENT-CLASS-260-63N	c 27	N78-31232 *	US-PATENT-CLASS-264-137	c 27	N83-34041 *	US-PATENT-CLASS-264-90	c 24	N78-17150 *
US-PATENT-CLASS-260-63N	c 27	N78-32261 *	US-PATENT-CLASS-264-137	c 27	N85-20124 *	US-PATENT-CLASS-264-92	c 15	N71-17803 *
US-PATENT-CLASS-260-63R	c 27	N78-32261 *	US-PATENT-CLASS-264-145	c 15	N79-26100 *	US-PATENT-CLASS-264-92	c 15	N72-24522 *
US-PATENT-CLASS-260-65	c 06	N73-27980 *	US-PATENT-CLASS-264-151	c 15	N79-26100 *	US-PATENT-CLASS-264-9	c 31	N81-33319 *
US-PATENT-CLASS-260-65	c 27	N78-32261 *	US-PATENT-CLASS-264-152	c 27	N85-20124 *	US-PATENT-CLASS-264-9	c 31	N83-31896 *
US-PATENT-CLASS-260-65	c 23	N82-29358 *	US-PATENT-CLASS-264-157	c 24	N78-17150 *	US-PATENT-CLASS-266-119	c 26	N80-28492 *
US-PATENT-CLASS-260-67	c 27	N78-17214 *	US-PATENT-CLASS-264-161	c 37	N76-31524 *	US-PATENT-CLASS-266-19	c 15	N70-33382 *
US-PATENT-CLASS-260-67	c 27	N79-21191 *	US-PATENT-CLASS-264-175	c 15	N79-26100 *	US-PATENT-CLASS-266-249	c 26	N80-28492 *
US-PATENT-CLASS-260-72.5	c 06	N71-11236 *	US-PATENT-CLASS-264-184	c 27	N78-32262 *	US-PATENT-CLASS-266-24	c 17	N72-28535 *
US-PATENT-CLASS-260-72.5	c 06	N71-11239 *	US-PATENT-CLASS-264-1	c 44	N79-24432 *	US-PATENT-CLASS-266-274	c 26	N80-28492 *
US-PATENT-CLASS-260-72.5	c 06	N71-24740 *	US-PATENT-CLASS-264-204	c 27	N86-29039 *	US-PATENT-CLASS-267-150	c 37	N85-34401 *
US-PATENT-CLASS-260-75NH	c 27	N78-17213 *	US-PATENT-CLASS-264-211	c 27	N78-32262 *	US-PATENT-CLASS-267-166	c 34	N74-18552 *
US-PATENT-CLASS-260-75NK	c 27	N78-17213 *	US-PATENT-CLASS-264-212	c 27	N80-32516 *	US-PATENT-CLASS-267-1	c 15	N69-27504 *
US-PATENT-CLASS-260-75NT	c 27	N78-17213 *	US-PATENT-CLASS-264-212	c 27	N86-31727 *	US-PATENT-CLASS-267-1	c 15	N70-38225 *
US-PATENT-CLASS-260-77.5AM	c 27	N78-17213 *	US-PATENT-CLASS-264-216	c 25	N82-21268 *	US-PATENT-CLASS-267-6R	c 15	N71-21530 *
US-PATENT-CLASS-260-77.5AN	c 27	N78-17213 *	US-PATENT-CLASS-264-216	c 27	N86-29039 *	US-PATENT-CLASS-269-152	c 18	N83-29303 *
US-PATENT-CLASS-260-77.5AP	c 06	N72-27144 *	US-PATENT-CLASS-264-217	c 25	N75-12087 *	US-PATENT-CLASS-269-153	c 44	N79-19447 *
US-PATENT-CLASS-260-77.5AP	c 06	N73-33076 *	US-PATENT-CLASS-264-219	c 37	N76-31524 *	US-PATENT-CLASS-269-156	c 37	N80-14398 *
US-PATENT-CLASS-260-77.5AP	c 27	N77-31308 *	US-PATENT-CLASS-264-220	c 27	N82-28440 *	US-PATENT-CLASS-269-21	c 37	N76-21554 *
US-PATENT-CLASS-260-77.5AP	c 27	N78-17213 *	US-PATENT-CLASS-264-221	c 15	N72-16329 *	US-PATENT-CLASS-269-21	c 37	N78-17383 *
US-PATENT-CLASS-260-77.5AT	c 27	N78-17213 *	US-PATENT-CLASS-264-225	c 15	N72-16329 *	US-PATENT-CLASS-269-21	c 37	N78-27423 *
US-PATENT-CLASS-260-77.5P	c 27	N78-17213 *	US-PATENT-CLASS-264-227	c 15	N72-16329 *	US-PATENT-CLASS-269-21	c 76	N80-18951 *
US-PATENT-CLASS-260-77.5	c 06	N73-30099 *	US-PATENT-CLASS-264-229	c 24	N81-29163 *	US-PATENT-CLASS-269-21	c 37	N81-33482 *
US-PATENT-CLASS-260-77.5	c 06	N73-30100 *	US-PATENT-CLASS-264-22	c 15	N72-20446 *	US-PATENT-CLASS-269-224	c 37	N84-28083 *
US-PATENT-CLASS-260-77.5	c 06	N73-30103 *	US-PATENT-CLASS-264-22	c 14	N72-22439 *	US-PATENT-CLASS-269-242	c 18	N83-29303 *
US-PATENT-CLASS-260-78.41	c 27	N78-31232 *	US-PATENT-CLASS-264-22	c 25	N75-12087 *	US-PATENT-CLASS-269-242	c 37	N84-28083 *
US-PATENT-CLASS-260-78TF	c 06	N73-27980 *	US-PATENT-CLASS-264-22	c 27	N80-32516 *	US-PATENT-CLASS-269-244	c 18	N83-29303 *
US-PATENT-CLASS-260-78TF	c 27	N74-23125 *	US-PATENT-CLASS-264-22	c 27	N82-28440 *	US-PATENT-CLASS-269-244	c 37	N84-28083 *
US-PATENT-CLASS-260-78TF	c 23	N75-30256 *	US-PATENT-CLASS-264-230	c 37	N82-24491 *	US-PATENT-CLASS-269-252	c 37	N84-28083 *
US-PATENT-CLASS-260-78TF	c 23	N76-15268 *	US-PATENT-CLASS-264-231	c 24	N81-29163 *			

US-PATENT-CLASS-269-266	c 37	N78-27423 *	US-PATENT-CLASS-285-265	c 37	N76-14460 *	US-PATENT-CLASS-29-268	c 37	N74-32918 *
US-PATENT-CLASS-269-285	c 37	N84-28083 *	US-PATENT-CLASS-285-27	c 15	N70-41808 *	US-PATENT-CLASS-29-271	c 15	N70-41371 *
US-PATENT-CLASS-269-287	c 37	N80-23655 *	US-PATENT-CLASS-285-27	c 18	N87-27713 *	US-PATENT-CLASS-29-278R	c 15	N71-29133 *
US-PATENT-CLASS-269-3	c 37	N84-12491 *	US-PATENT-CLASS-285-305	c 37	N87-22977 *	US-PATENT-CLASS-29-400	c 05	N71-12345 *
US-PATENT-CLASS-269-48.1	c 39	N74-13131 *	US-PATENT-CLASS-285-314	c 15	N71-24903 *	US-PATENT-CLASS-29-402.16	c 37	N86-32736 *
US-PATENT-CLASS-27-498	c 15	N73-28515 *	US-PATENT-CLASS-285-316	c 15	N72-25450 *	US-PATENT-CLASS-29-412	c 15	N72-20444 *
US-PATENT-CLASS-272-DIG.1	c 05	N73-32014 *	US-PATENT-CLASS-285-316	c 33	N73-26958 *	US-PATENT-CLASS-29-419	c 24	N75-28135 *
US-PATENT-CLASS-272-DIG.4	c 05	N73-32014 *	US-PATENT-CLASS-285-317	c 15	N71-24903 *	US-PATENT-CLASS-29-420.5	c 26	N74-10521 *
US-PATENT-CLASS-272-DIG.5	c 05	N73-32014 *	US-PATENT-CLASS-285-31	c 18	N87-27713 *	US-PATENT-CLASS-29-420.5	c 37	N74-13179 *
US-PATENT-CLASS-272-1R	c 09	N75-15662 *	US-PATENT-CLASS-285-326	c 37	N79-11402 *	US-PATENT-CLASS-29-420.5	c 37	N75-26371 *
US-PATENT-CLASS-272-57A	c 09	N75-15662 *	US-PATENT-CLASS-285-331	c 15	N70-41629 *	US-PATENT-CLASS-29-420	c 24	N75-13032 *
US-PATENT-CLASS-272-70	c 05	N71-28619 *	US-PATENT-CLASS-285-33	c 15	N72-25450 *	US-PATENT-CLASS-29-421E	c 37	N79-13364 *
US-PATENT-CLASS-272-73	c 14	N73-27377 *	US-PATENT-CLASS-285-345	c 15	N72-20445 *	US-PATENT-CLASS-29-421	c 15	N71-29018 *
US-PATENT-CLASS-272-73	c 05	N73-27941 *	US-PATENT-CLASS-285-359	c 37	N79-11402 *	US-PATENT-CLASS-29-421	c 14	N72-22439 *
US-PATENT-CLASS-272-73	c 37	N74-18127 *	US-PATENT-CLASS-285-373	c 18	N87-27713 *	US-PATENT-CLASS-29-421	c 37	N76-14461 *
US-PATENT-CLASS-272-79C	c 05	N73-32014 *	US-PATENT-CLASS-285-37	c 37	N82-24490 *	US-PATENT-CLASS-29-423	c 15	N70-36409 *
US-PATENT-CLASS-272-80	c 37	N74-18127 *	US-PATENT-CLASS-285-38	c 15	N71-24903 *	US-PATENT-CLASS-29-423	c 31	N74-21059 *
US-PATENT-CLASS-273-1E	c 05	N73-13114 *	US-PATENT-CLASS-285-3	c 15	N69-27490 *	US-PATENT-CLASS-29-423	c 52	N84-28389 *
US-PATENT-CLASS-273-240	c 31	N83-34073 *	US-PATENT-CLASS-285-3	c 15	N72-25450 *	US-PATENT-CLASS-29-426	c 15	N72-20444 *
US-PATENT-CLASS-274-4R	c 09	N72-11224 *	US-PATENT-CLASS-285-401	c 37	N82-24494 *	US-PATENT-CLASS-29-428	c 15	N71-17686 *
US-PATENT-CLASS-277-105	c 37	N82-24490 *	US-PATENT-CLASS-285-406	c 15	N71-24903 *	US-PATENT-CLASS-29-432	c 37	N76-19437 *
US-PATENT-CLASS-277-116.6	c 37	N84-11497 *	US-PATENT-CLASS-285-410	c 05	N72-11085 *	US-PATENT-CLASS-29-433	c 37	N76-19437 *
US-PATENT-CLASS-277-124	c 37	N84-11497 *	US-PATENT-CLASS-285-421	c 18	N87-27713 *	US-PATENT-CLASS-29-446	c 37	N83-36482 *
US-PATENT-CLASS-277-134	c 37	N75-21631 *	US-PATENT-CLASS-285-45	c 15	N71-28937 *	US-PATENT-CLASS-29-447	c 37	N77-23482 *
US-PATENT-CLASS-277-134	c 07	N78-25090 *	US-PATENT-CLASS-285-81	c 37	N87-22977 *	US-PATENT-CLASS-29-451	c 52	N84-28389 *
US-PATENT-CLASS-277-135	c 37	N85-29284 *	US-PATENT-CLASS-285-85	c 37	N87-22977 *	US-PATENT-CLASS-29-452	c 15	N73-30457 *
US-PATENT-CLASS-277-13	c 15	N71-26294 *	US-PATENT-CLASS-285-86	c 18	N87-27713 *	US-PATENT-CLASS-29-458	c 26	N83-10170 *
US-PATENT-CLASS-277-153	c 37	N80-28711 *	US-PATENT-CLASS-285-89	c 37	N82-24494 *	US-PATENT-CLASS-29-460	c 37	N74-11301 *
US-PATENT-CLASS-277-153	c 37	N81-26447 *	US-PATENT-CLASS-285-901	c 35	N87-28884 *	US-PATENT-CLASS-29-460	c 37	N75-13261 *
US-PATENT-CLASS-277-164	c 37	N84-11497 *	US-PATENT-CLASS-285-91	c 37	N87-22977 *	US-PATENT-CLASS-29-463	c 07	N78-33101 *
US-PATENT-CLASS-277-177	c 37	N84-11497 *	US-PATENT-CLASS-287-119	c 15	N70-41829 *	US-PATENT-CLASS-29-467	c 39	N76-31562 *
US-PATENT-CLASS-277-181	c 37	N81-15363 *	US-PATENT-CLASS-287-189.365	c 15	N71-26312 *	US-PATENT-CLASS-29-470.1	c 37	N74-21057 *
US-PATENT-CLASS-277-189	c 37	N82-16408 *	US-PATENT-CLASS-287-189.36	c 15	N71-10799 *	US-PATENT-CLASS-29-470.1	c 37	N75-12326 *
US-PATENT-CLASS-277-190	c 37	N84-11497 *	US-PATENT-CLASS-287-54A	c 11	N72-25287 *	US-PATENT-CLASS-29-472.7	c 37	N75-15992 *
US-PATENT-CLASS-277-192	c 37	N79-22474 *	US-PATENT-CLASS-287-85R	c 15	N73-12488 *	US-PATENT-CLASS-29-472.9	c 15	N69-39786 *
US-PATENT-CLASS-277-193	c 37	N80-28711 *	US-PATENT-CLASS-287-92	c 31	N73-32749 *	US-PATENT-CLASS-29-472.9	c 26	N71-16037 *
US-PATENT-CLASS-277-193	c 37	N81-26447 *	US-PATENT-CLASS-29-DIG.1	c 44	N81-14389 *	US-PATENT-CLASS-29-472.9	c 15	N72-22492 *
US-PATENT-CLASS-277-1	c 37	N82-24490 *	US-PATENT-CLASS-29-DIG.24	c 24	N75-33181 *	US-PATENT-CLASS-29-473.1	c 15	N72-22487 *
US-PATENT-CLASS-277-204	c 37	N82-24490 *	US-PATENT-CLASS-29-DIG.35	c 37	N77-23482 *	US-PATENT-CLASS-29-473.1	c 15	N72-22492 *
US-PATENT-CLASS-277-224	c 37	N80-28711 *	US-PATENT-CLASS-29-DIG.39	c 24	N75-33181 *	US-PATENT-CLASS-29-473.1	c 37	N75-15992 *
US-PATENT-CLASS-277-229	c 37	N81-15363 *	US-PATENT-CLASS-29-125	c 37	N79-10422 *	US-PATENT-CLASS-29-475	c 37	N75-12326 *
US-PATENT-CLASS-277-25	c 15	N69-21362 *	US-PATENT-CLASS-29-148.4A	c 37	N74-15128 *	US-PATENT-CLASS-29-482	c 05	N72-25121 *
US-PATENT-CLASS-277-25	c 15	N71-19570 *	US-PATENT-CLASS-29-148.4B	c 37	N74-15128 *	US-PATENT-CLASS-29-482	c 37	N74-18128 *
US-PATENT-CLASS-277-25	c 15	N72-29488 *	US-PATENT-CLASS-29-148.4	c 15	N71-16052 *	US-PATENT-CLASS-29-487	c 15	N73-33383 *
US-PATENT-CLASS-277-25	c 37	N74-10474 *	US-PATENT-CLASS-29-155.55	c 15	N71-17688 *	US-PATENT-CLASS-29-487	c 37	N74-21055 *
US-PATENT-CLASS-277-25	c 07	N78-25090 *	US-PATENT-CLASS-29-155.5-R	c 24	N71-15986 *	US-PATENT-CLASS-29-488	c 15	N70-33311 *
US-PATENT-CLASS-277-27	c 15	N72-29488 *	US-PATENT-CLASS-29-156.5R	c 37	N87-27742 *	US-PATENT-CLASS-29-488	c 37	N74-18128 *
US-PATENT-CLASS-277-27	c 37	N74-10474 *	US-PATENT-CLASS-29-156.8R	c 37	N78-24544 *	US-PATENT-CLASS-29-492	c 15	N71-20443 *
US-PATENT-CLASS-277-27	c 37	N74-15125 *	US-PATENT-CLASS-29-157.3H	c 74	N83-19596 *	US-PATENT-CLASS-29-492	c 09	N72-25261 *
US-PATENT-CLASS-277-27	c 37	N75-21631 *	US-PATENT-CLASS-29-157.3R	c 34	N74-18552 *	US-PATENT-CLASS-29-494	c 15	N73-33383 *
US-PATENT-CLASS-277-27	c 37	N82-12442 *	US-PATENT-CLASS-29-157.3	c 28	N70-41818 *	US-PATENT-CLASS-29-494	c 37	N74-21055 *
US-PATENT-CLASS-277-2	c 37	N82-24490 *	US-PATENT-CLASS-29-157	c 28	N71-15658 *	US-PATENT-CLASS-29-494	c 37	N75-13261 *
US-PATENT-CLASS-277-40	c 37	N75-21631 *	US-PATENT-CLASS-29-182.1	c 18	N71-23710 *	US-PATENT-CLASS-29-495	c 15	N71-21078 *
US-PATENT-CLASS-277-40	c 37	N82-12442 *	US-PATENT-CLASS-29-182.2	c 17	N71-23046 *	US-PATENT-CLASS-29-497.5	c 15	N73-28515 *
US-PATENT-CLASS-277-41	c 37	N76-22541 *	US-PATENT-CLASS-29-182.2	c 37	N75-26371 *	US-PATENT-CLASS-29-497.5	c 15	N73-33383 *
US-PATENT-CLASS-277-4	c 37	N76-22541 *	US-PATENT-CLASS-29-182.5	c 17	N72-28536 *	US-PATENT-CLASS-29-497.5	c 37	N74-11300 *
US-PATENT-CLASS-277-4	c 37	N82-24490 *	US-PATENT-CLASS-29-182.5	c 37	N75-26371 *	US-PATENT-CLASS-29-497.5	c 37	N75-13261 *
US-PATENT-CLASS-277-53	c 37	N86-20788 *	US-PATENT-CLASS-29-182.5	c 27	N76-15311 *	US-PATENT-CLASS-29-497	c 09	N72-25261 *
US-PATENT-CLASS-277-59	c 37	N82-24490 *	US-PATENT-CLASS-29-182.5	c 27	N77-13217 *	US-PATENT-CLASS-29-497	c 15	N73-32358 *
US-PATENT-CLASS-277-62	c 37	N79-22475 *	US-PATENT-CLASS-29-182	c 37	N74-13179 *	US-PATENT-CLASS-29-497	c 37	N74-18128 *
US-PATENT-CLASS-277-72R	c 37	N82-24490 *	US-PATENT-CLASS-29-182	c 34	N76-27515 *	US-PATENT-CLASS-29-498	c 09	N72-25261 *
US-PATENT-CLASS-277-74	c 15	N72-29488 *	US-PATENT-CLASS-29-183.5	c 17	N70-38490 *	US-PATENT-CLASS-29-498	c 15	N73-33383 *
US-PATENT-CLASS-277-74	c 37	N76-22541 *	US-PATENT-CLASS-29-193	c 34	N76-27515 *	US-PATENT-CLASS-29-498	c 37	N74-11301 *
US-PATENT-CLASS-277-80	c 37	N85-29284 *	US-PATENT-CLASS-29-194	c 26	N75-19408 *	US-PATENT-CLASS-29-498	c 37	N74-18128 *
US-PATENT-CLASS-277-81R	c 37	N82-16408 *	US-PATENT-CLASS-29-194	c 44	N76-14595 *	US-PATENT-CLASS-29-498	c 37	N74-21055 *
US-PATENT-CLASS-277-91	c 37	N74-15125 *	US-PATENT-CLASS-29-195A	c 27	N76-16229 *	US-PATENT-CLASS-29-502	c 09	N72-25261 *
US-PATENT-CLASS-277-93R	c 37	N76-22541 *	US-PATENT-CLASS-29-195Y	c 14	N73-32320 *	US-PATENT-CLASS-29-503	c 37	N74-11301 *
US-PATENT-CLASS-277-93R	c 37	N82-12442 *	US-PATENT-CLASS-29-195	c 44	N76-14595 *	US-PATENT-CLASS-29-504	c 37	N74-21055 *
US-PATENT-CLASS-277-96.1	c 37	N79-22475 *	US-PATENT-CLASS-29-196.2	c 17	N73-32414 *	US-PATENT-CLASS-29-504	c 37	N75-13261 *
US-PATENT-CLASS-277-96	c 37	N74-10474 *	US-PATENT-CLASS-29-196.2	c 26	N75-19408 *	US-PATENT-CLASS-29-517	c 15	N71-17650 *
US-PATENT-CLASS-277-96	c 37	N81-24442 *	US-PATENT-CLASS-29-196.6	c 17	N73-32414 *	US-PATENT-CLASS-29-521	c 26	N83-10170 *
US-PATENT-CLASS-279-1B	c 37	N75-33395 *	US-PATENT-CLASS-29-196.6	c 37	N75-13261 *	US-PATENT-CLASS-29-526	c 37	N76-19437 *
US-PATENT-CLASS-279-107	c 37	N75-33395 *	US-PATENT-CLASS-29-196.6	c 26	N75-19408 *	US-PATENT-CLASS-29-526	c 39	N76-31562 *
US-PATENT-CLASS-279-3	c 37	N78-17383 *	US-PATENT-CLASS-29-197	c 17	N73-32414 *	US-PATENT-CLASS-29-527.2	c 15	N72-20444 *
US-PATENT-CLASS-279-89	c 37	N75-33395 *	US-PATENT-CLASS-29-197	c 37	N75-13261 *	US-PATENT-CLASS-29-527.2	c 15	N73-32360 *
US-PATENT-CLASS-280-150SB	c 05	N75-25915 *	US-PATENT-CLASS-29-197	c 26	N75-19408 *	US-PATENT-CLASS-29-527.2	c 37	N74-11301 *
US-PATENT-CLASS-280-432	c 37	N77-14477 *	US-PATENT-CLASS-29-197	c 44	N76-14595 *	US-PATENT-CLASS-29-527.2	c 24	N75-33181 *
US-PATENT-CLASS-280-47.11	c 85	N87-21755 *	US-PATENT-CLASS-29-198	c 17	N70-33288 *	US-PATENT-CLASS-29-527.2	c 24	N77-19171 *
US-PATENT-CLASS-280-805	c 37	N82-18601 *	US-PATENT-CLASS-29-198	c 09	N72-25259 *	US-PATENT-CLASS-29-57.4	c 44	N79-24431 *
US-PATENT-CLASS-285-DIG.21	c 15	N72-25450 *	US-PATENT-CLASS-29-203H	c 37	N74-32918 *	US-PATENT-CLASS-29-570	c 26	N72-28761 *
US-PATENT-CLASS-285-DIG.21	c 33	N73-26958 *	US-PATENT-CLASS-29-203MMW	c 33	N74-26977 *	US-PATENT-CLASS-29-571	c 35	N75-13213 *
US-PATENT-CLASS-285-114	c 37	N75-19686 *	US-PATENT-CLASS-29-203V	c 15	N73-14468 *	US-PATENT-CLASS-29-571	c 33	N78-27326 *
US-PATENT-CLASS-285-137.1	c 35	N87-28884 *	US-PATENT-CLASS-29-23.5	c 37	N78-24544 *	US-PATENT-CLASS-29-571	c 33	N81-26360 *
US-PATENT-CLASS-285-159	c 37	N82-24494 *	US-PATENT-CLASS-29-234	c 15	N70-36901 *	US-PATENT-CLASS-29-572	c 09	N71-23027 *
US-PATENT-CLASS-285-168	c 54	N86-28619 *	US-PATENT-CLASS-29-244	c 37	N78-24544 *	US-PATENT-CLASS-29-572	c 03	N71-24681 *
US-PATENT-CLASS-285-168	c 54	N86-28620 *	US-PATENT-CLASS-29-25.14	c 05	N72-25121 *	US-PATENT-CLASS-29-572	c 03	N72-22041 *
US-PATENT-CLASS-285-168	c 54	N86-29507 *	US-PATENT-CLASS-29-25.14	c 35	N82-24471 *	US-PATENT-CLASS-29-572	c 44	N74-14784 *
US-PATENT-CLASS-285-184	c 54	N86-29507 *	US-PATENT-CLASS-29-25.18	c 09	N71-26678 *	US-PATENT-CLASS-29-572	c 44	N76-14600 *
US-PATENT-CLASS-285-18	c 15	N72-20445 *	US-PATENT-CLASS-29-25.18	c 05	N72-25121 *	US-PATENT-CLASS-29-572	c 44	N76-28635 *
US-PATENT-CLASS-285-192	c 20	N78-24275 *	US-PATENT-CLASS-29-25.18	c 20	N75-18310 *	US-PATENT-CLASS-29-572	c 44	N77-10635 *
US-PATENT-CLASS-285-226	c 37	N75-19686 *	US-PATENT-CLASS-29-25.18	c 20	N76-21276 *	US-PATENT-CLASS-29-572	c 44	N78-24609 *
US-PATENT-CLASS-285-226	c 37	N76-14460 *	US-PATENT-CLASS-29-25.35	c 35	N80-20559 *	US-PATENT-CLASS-29-572	c 44	N78-25527 *
US-PATENT-CLASS-285-227	c 54	N86-29507 *	US-PATENT-CLASS-29-25.42	c 26	N72-28762 *	US-PATENT-CLASS-29-572	c 44	N78-25528 *
US-PATENT-CLASS-285-235	c 54	N78-31735 *	US-PATENT-CLASS-29-252	c 37	N78-24544 *	US-PATENT-CLASS-29-572	c 44	N78-25529 *
US-PATENT-CLASS-285-235	c 54	N79-24651 *	US-PATENT-CLASS-29-26A	c 37	N75-33395 *	US-PATENT-CLASS-29-572	c 44	N79-11468 *
US-PATENT-CLASS-285-24	c 15	N71-10782 *	US-PATENT-CLASS-29-267	c 60	N82-24839 *	US-PATENT-CLASS-29-572	c 44	N79-11472 *

US-PATENT-CLASS-29-572	c 44	N79-17314 *	US-PATENT-CLASS-292-252	c 37	N85-21649 *	US-PATENT-CLASS-307-207	c 09	N73-13209 *
US-PATENT-CLASS-29-572	c 44	N79-18444 *	US-PATENT-CLASS-292-64	c 37	N87-25582 *	US-PATENT-CLASS-307-208	c 33	N75-14957 *
US-PATENT-CLASS-29-572	c 44	N79-24431 *	US-PATENT-CLASS-294-1R	c 35	N76-16392 *	US-PATENT-CLASS-307-211	c 35	N75-30504 *
US-PATENT-CLASS-29-572	c 44	N79-26475 *	US-PATENT-CLASS-294-106	c 37	N81-14320 *	US-PATENT-CLASS-307-215	c 10	N71-28860 *
US-PATENT-CLASS-29-572	c 44	N79-31752 *	US-PATENT-CLASS-294-113	c 37	N80-14398 *	US-PATENT-CLASS-307-215	c 09	N71-29139 *
US-PATENT-CLASS-29-572	c 44	N80-14474 *	US-PATENT-CLASS-294-116	c 37	N75-33395 *	US-PATENT-CLASS-307-215	c 10	N72-22236 *
US-PATENT-CLASS-29-572	c 44	N82-26780 *	US-PATENT-CLASS-294-116	c 37	N82-32731 *	US-PATENT-CLASS-307-215	c 09	N73-13209 *
US-PATENT-CLASS-29-572	c 44	N82-29709 *	US-PATENT-CLASS-294-15	c 15	N71-29133 *	US-PATENT-CLASS-307-215	c 33	N74-22814 *
US-PATENT-CLASS-29-572	c 44	N83-13579 *	US-PATENT-CLASS-294-19R	c 35	N76-16392 *	US-PATENT-CLASS-307-216	c 08	N71-18751 *
US-PATENT-CLASS-29-572	c 76	N86-20150 *	US-PATENT-CLASS-294-83	c 15	N71-24897 *	US-PATENT-CLASS-307-219	c 35	N75-30504 *
US-PATENT-CLASS-29-572	c 44	N86-32875 *	US-PATENT-CLASS-294-86.33	c 37	N75-33395 *	US-PATENT-CLASS-307-219	c 60	N81-15706 *
US-PATENT-CLASS-29-573	c 14	N73-13417 *	US-PATENT-CLASS-294-86R	c 37	N80-14398 *	US-PATENT-CLASS-307-220	c 10	N73-26229 *
US-PATENT-CLASS-29-575	c 76	N87-15882 *	US-PATENT-CLASS-294-86R	c 37	N81-27519 *	US-PATENT-CLASS-307-221R	c 10	N73-20254 *
US-PATENT-CLASS-29-576-E	c 76	N87-15882 *	US-PATENT-CLASS-294-86R	c 18	N83-29303 *	US-PATENT-CLASS-307-221R	c 33	N76-14373 *
US-PATENT-CLASS-29-576-J	c 76	N87-15882 *	US-PATENT-CLASS-294-93	c 54	N81-26718 *	US-PATENT-CLASS-307-222	c 09	N69-27463 * #
US-PATENT-CLASS-29-576-W	c 76	N87-15882 *	US-PATENT-CLASS-296-1S	c 85	N82-33288 *	US-PATENT-CLASS-307-222	c 08	N71-29034 *
US-PATENT-CLASS-29-576B	c 44	N86-32875 *	US-PATENT-CLASS-296-100	c 37	N87-17036 *	US-PATENT-CLASS-307-223B	c 09	N72-22201 *
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US-PATENT-CLASS-307-29	c 03	N73-31988 *	US-PATENT-CLASS-308-160	c 37	N79-10418 *	US-PATENT-CLASS-310-317	c 35	N84-22932 *
US-PATENT-CLASS-307-300	c 10	N71-27126 *	US-PATENT-CLASS-308-163	c 37	N76-29588 *	US-PATENT-CLASS-310-319	c 33	N80-23559 *
US-PATENT-CLASS-307-303	c 08	N72-21198 *	US-PATENT-CLASS-308-163	c 37	N79-10418 *	US-PATENT-CLASS-310-322	c 71	N79-20827 *
US-PATENT-CLASS-307-304	c 09	N72-22201 *	US-PATENT-CLASS-308-168	c 24	N79-17916 *	US-PATENT-CLASS-310-324	c 33	N86-20671 *
US-PATENT-CLASS-307-304	c 09	N73-20232 *	US-PATENT-CLASS-308-170	c 15	N71-28465 *	US-PATENT-CLASS-310-326	c 38	N79-14398 *
US-PATENT-CLASS-307-304	c 33	N74-34638 *	US-PATENT-CLASS-308-170	c 37	N76-29588 *	US-PATENT-CLASS-310-327	c 35	N80-20559 *
US-PATENT-CLASS-307-305	c 09	N72-23171 *	US-PATENT-CLASS-308-171	c 24	N79-17916 *	US-PATENT-CLASS-310-332	c 76	N83-34796 *
US-PATENT-CLASS-307-306	c 33	N78-13320 *	US-PATENT-CLASS-308-172	c 37	N79-10418 *	US-PATENT-CLASS-310-334	c 71	N79-20827 *
US-PATENT-CLASS-307-306	c 33	N81-17348 *	US-PATENT-CLASS-308-174	c 54	N75-12616 *	US-PATENT-CLASS-310-334	c 35	N80-20559 *
US-PATENT-CLASS-307-308	c 14	N73-28488 *	US-PATENT-CLASS-308-176	c 15	N71-22982 *	US-PATENT-CLASS-310-334	c 35	N84-22932 *
US-PATENT-CLASS-307-309	c 35	N75-13213 *	US-PATENT-CLASS-308-177	c 15	N71-29136 *	US-PATENT-CLASS-310-336	c 38	N79-14398 *
US-PATENT-CLASS-307-310	c 09	N73-14214 *	US-PATENT-CLASS-308-187	c 15	N71-26189 *	US-PATENT-CLASS-310-360	c 35	N80-20559 *
US-PATENT-CLASS-307-311	c 14	N72-18411 *	US-PATENT-CLASS-308-188	c 15	N73-30458 *	US-PATENT-CLASS-310-366	c 35	N84-22932 *
US-PATENT-CLASS-307-311	c 08	N72-21198 *	US-PATENT-CLASS-308-188	c 37	N74-21064 *	US-PATENT-CLASS-310-4A	c 37	N77-19458 *
US-PATENT-CLASS-307-311	c 09	N73-14214 *	US-PATENT-CLASS-308-191	c 37	N74-21064 *	US-PATENT-CLASS-310-4R	c 33	N74-27662 *
US-PATENT-CLASS-307-313	c 10	N72-20221 *	US-PATENT-CLASS-308-191	c 37	N75-31446 *	US-PATENT-CLASS-310-4R	c 73	N77-18891 *
US-PATENT-CLASS-307-317	c 09	N72-22200 *	US-PATENT-CLASS-308-193	c 15	N73-30458 *	US-PATENT-CLASS-310-40	c 20	N75-24837 *
US-PATENT-CLASS-307-317	c 09	N72-22201 *	US-PATENT-CLASS-308-194	c 37	N79-11404 *	US-PATENT-CLASS-310-42	c 14	N72-22439 *
US-PATENT-CLASS-307-31	c 44	N87-21410 *	US-PATENT-CLASS-308-195	c 15	N72-22490 *	US-PATENT-CLASS-310-46	c 33	N79-20314 *
US-PATENT-CLASS-307-321	c 33	N75-19520 *	US-PATENT-CLASS-308-195	c 37	N75-31446 *	US-PATENT-CLASS-310-4	c 09	N69-21313 *
US-PATENT-CLASS-307-321	c 33	N75-25041 *	US-PATENT-CLASS-308-195	c 37	N77-32500 *	US-PATENT-CLASS-310-4	c 03	N69-39898 *
US-PATENT-CLASS-307-322	c 10	N72-22236 *	US-PATENT-CLASS-308-195	c 37	N77-32501 *	US-PATENT-CLASS-310-4	c 09	N69-39929 *
US-PATENT-CLASS-307-323	c 10	N72-22236 *	US-PATENT-CLASS-308-1	c 31	N71-26537 *	US-PATENT-CLASS-310-4	c 03	N70-34134 *
US-PATENT-CLASS-307-350	c 33	N78-18308 *	US-PATENT-CLASS-308-2A	c 15	N72-26371 *	US-PATENT-CLASS-310-4	c 03	N71-11055 *
US-PATENT-CLASS-307-352	c 33	N81-27396 *	US-PATENT-CLASS-308-2A	c 15	N73-12488 *	US-PATENT-CLASS-310-4	c 22	N71-23599 *
US-PATENT-CLASS-307-353	c 33	N81-27396 *	US-PATENT-CLASS-308-2A	c 37	N84-12492 *	US-PATENT-CLASS-310-4	c 09	N71-24807 *
US-PATENT-CLASS-307-354	c 33	N87-21235 *	US-PATENT-CLASS-308-201	c 37	N75-31446 *	US-PATENT-CLASS-310-4	c 33	N71-27862 *
US-PATENT-CLASS-307-35	c 33	N74-34638 *	US-PATENT-CLASS-308-2	c 15	N71-23812 *	US-PATENT-CLASS-310-4	c 09	N71-28421 *
US-PATENT-CLASS-307-360	c 33	N78-18308 *	US-PATENT-CLASS-308-35	c 15	N73-32359 *	US-PATENT-CLASS-310-4	c 09	N72-25260 *
US-PATENT-CLASS-307-38	c 03	N73-31988 *	US-PATENT-CLASS-308-5R	c 37	N77-28486 *	US-PATENT-CLASS-310-4	c 09	N72-27228 *
US-PATENT-CLASS-307-415	c 33	N82-24418 *	US-PATENT-CLASS-308-5R	c 37	N79-10418 *	US-PATENT-CLASS-310-4	c 20	N75-24837 *
US-PATENT-CLASS-307-425	c 36	N87-25567 *	US-PATENT-CLASS-308-5	c 15	N71-10617 *	US-PATENT-CLASS-310-4	c 36	N75-30524 *
US-PATENT-CLASS-307-490	c 33	N87-22895 *	US-PATENT-CLASS-308-5	c 15	N72-11388 *	US-PATENT-CLASS-310-4	c 44	N76-16612 *
US-PATENT-CLASS-307-520	c 33	N85-29145 *	US-PATENT-CLASS-308-5	c 15	N72-17451 *	US-PATENT-CLASS-310-51	c 15	N71-27169 *
US-PATENT-CLASS-307-521	c 33	N85-29145 *	US-PATENT-CLASS-308-72	c 37	N76-15461 *	US-PATENT-CLASS-310-52	c 20	N75-24837 *
US-PATENT-CLASS-307-529	c 33	N85-29145 *	US-PATENT-CLASS-308-72	c 37	N77-32500 *	US-PATENT-CLASS-310-54	c 09	N71-20446 *
US-PATENT-CLASS-307-53	c 10	N71-26626 *	US-PATENT-CLASS-308-72	c 37	N79-11404 *	US-PATENT-CLASS-310-5	c 03	N70-35408 *
US-PATENT-CLASS-307-53	c 33	N78-17296 *	US-PATENT-CLASS-308-73	c 37	N74-21061 *	US-PATENT-CLASS-310-68B	c 35	N84-28017 *
US-PATENT-CLASS-307-566	c 33	N86-20672 *	US-PATENT-CLASS-308-73	c 37	N75-30562 *	US-PATENT-CLASS-310-68	c 15	N72-25456 *
US-PATENT-CLASS-307-570	c 33	N86-20672 *	US-PATENT-CLASS-308-73	c 37	N76-15461 *	US-PATENT-CLASS-310-77	c 37	N85-30333 *
US-PATENT-CLASS-307-572	c 33	N86-20672 *	US-PATENT-CLASS-308-73	c 37	N77-28486 *	US-PATENT-CLASS-310-8.2	c 35	N76-15432 *
US-PATENT-CLASS-307-63	c 44	N80-14472 *	US-PATENT-CLASS-308-78	c 24	N79-17916 *	US-PATENT-CLASS-310-8.5	c 14	N71-22993 *
US-PATENT-CLASS-307-64	c 33	N77-30365 *	US-PATENT-CLASS-308-87R	c 24	N79-17916 *	US-PATENT-CLASS-310-800	c 76	N83-34796 *
US-PATENT-CLASS-307-64	c 44	N85-21769 *	US-PATENT-CLASS-308-9	c 15	N70-34664 *	US-PATENT-CLASS-310-80	c 15	N72-25456 *
US-PATENT-CLASS-307-64	c 44	N87-21410 *	US-PATENT-CLASS-308-9	c 15	N70-38620 *	US-PATENT-CLASS-310-82	c 33	N79-20314 *
US-PATENT-CLASS-307-66	c 44	N80-14472 *	US-PATENT-CLASS-308-9	c 15	N70-39896 *	US-PATENT-CLASS-310-83	c 15	N72-25456 *
US-PATENT-CLASS-307-66	c 44	N85-21769 *	US-PATENT-CLASS-308-9	c 15	N71-20739 *	US-PATENT-CLASS-310-9.1	c 15	N71-21311 *
US-PATENT-CLASS-307-66	c 44	N87-21410 *	US-PATENT-CLASS-308-9	c 14	N71-26627 *	US-PATENT-CLASS-310-90.5	c 37	N87-17038 *
US-PATENT-CLASS-307-69	c 33	N78-17296 *	US-PATENT-CLASS-308-9	c 15	N72-17451 *	US-PATENT-CLASS-310-93	c 15	N71-17652 *
US-PATENT-CLASS-307-80	c 44	N87-21410 *	US-PATENT-CLASS-308-9	c 15	N73-32359 *	US-PATENT-CLASS-310-93	c 37	N85-30333 *
US-PATENT-CLASS-307-81	c 09	N72-17157 *	US-PATENT-CLASS-308-9	c 37	N76-15461 *	US-PATENT-CLASS-311-37	c 35	N75-29380 *
US-PATENT-CLASS-307-82	c 33	N79-24254 *	US-PATENT-CLASS-308-9	c 37	N77-28486 *	US-PATENT-CLASS-312-1	c 05	N71-23080 *
US-PATENT-CLASS-307-82	c 33	N85-29147 *	US-PATENT-CLASS-308-9	c 37	N79-10418 *	US-PATENT-CLASS-312-1	c 05	N73-20137 *
US-PATENT-CLASS-307-83	c 09	N72-25262 *	US-PATENT-CLASS-31-35	c 31	N85-21404 *	US-PATENT-CLASS-312-1	c 37	N74-20063 *

US-PATENT-CLASS-312-209	c 37	N74-18123 *	US-PATENT-CLASS-313-61S	c 73	N74-26767 *	US-PATENT-CLASS-315-307	c 14	N72-27411 *
US-PATENT-CLASS-312-257	c 31	N72-22874 *	US-PATENT-CLASS-313-61S	c 37	N78-13436 *	US-PATENT-CLASS-315-30	c 33	N75-27250 *
US-PATENT-CLASS-312-296	c 09	N71-18600 *	US-PATENT-CLASS-313-63	c 28	N70-41576 *	US-PATENT-CLASS-315-310	c 14	N72-27411 *
US-PATENT-CLASS-312-319	c 37	N79-33467 *	US-PATENT-CLASS-313-63	c 09	N71-10618 *	US-PATENT-CLASS-315-311	c 14	N72-27411 *
US-PATENT-CLASS-313-DIG.8	c 28	N73-24783 *	US-PATENT-CLASS-313-63	c 28	N71-26781 *	US-PATENT-CLASS-315-324	c 09	N73-30181 *
US-PATENT-CLASS-313-104	c 14	N73-32317 *	US-PATENT-CLASS-313-63	c 28	N73-24783 *	US-PATENT-CLASS-315-326	c 25	N72-24753 *
US-PATENT-CLASS-313-106	c 24	N83-10117 *	US-PATENT-CLASS-313-63	c 28	N73-27699 *	US-PATENT-CLASS-315-334	c 33	N80-14330 *
US-PATENT-CLASS-313-106	c 70	N84-28565 *	US-PATENT-CLASS-313-63	c 75	N75-13625 *	US-PATENT-CLASS-315-344	c 33	N77-21315 *
US-PATENT-CLASS-313-106	c 31	N86-32587 *	US-PATENT-CLASS-313-7	c 14	N71-18482 *	US-PATENT-CLASS-315-349	c 09	N72-25250 *
US-PATENT-CLASS-313-107	c 24	N83-10117 *	US-PATENT-CLASS-313-7	c 14	N73-32324 *	US-PATENT-CLASS-315-356	c 16	N73-32391 *
US-PATENT-CLASS-313-107	c 70	N84-28565 *	US-PATENT-CLASS-313-93	c 35	N74-26949 *	US-PATENT-CLASS-315-358	c 25	N72-24753 *
US-PATENT-CLASS-313-107	c 31	N86-32587 *	US-PATENT-CLASS-313-93	c 35	N82-24471 *	US-PATENT-CLASS-315-367	c 33	N75-26244 *
US-PATENT-CLASS-313-109.5	c 09	N71-33519 *	US-PATENT-CLASS-313-94	c 33	N76-31409 *	US-PATENT-CLASS-315-369	c 33	N75-26244 *
US-PATENT-CLASS-313-11.5	c 28	N70-39925 *	US-PATENT-CLASS-313-94	c 74	N78-18905 *	US-PATENT-CLASS-315-36	c 10	N72-27246 *
US-PATENT-CLASS-313-110	c 09	N71-12521 *	US-PATENT-CLASS-314-129	c 15	N69-24266 * #	US-PATENT-CLASS-315-387	c 33	N75-26244 *
US-PATENT-CLASS-313-131A	c 33	N85-21491 *	US-PATENT-CLASS-315-DIG.2	c 16	N73-32391 *	US-PATENT-CLASS-315-39.3	c 33	N84-16452 *
US-PATENT-CLASS-313-146	c 33	N77-22386 *	US-PATENT-CLASS-315-101	c 16	N73-32391 *	US-PATENT-CLASS-315-39.3	c 33	N84-27974 *
US-PATENT-CLASS-313-153	c 33	N74-12913 *	US-PATENT-CLASS-315-108	c 09	N71-33519 *	US-PATENT-CLASS-315-39.3	c 33	N86-21742 *
US-PATENT-CLASS-313-156	c 25	N70-34661 *	US-PATENT-CLASS-315-108	c 33	N77-21316 *	US-PATENT-CLASS-315.3	c 33	N83-31952 *
US-PATENT-CLASS-313-156	c 72	N80-27163 *	US-PATENT-CLASS-315-108	c 36	N78-17366 *	US-PATENT-CLASS-315-4	c 33	N83-31952 *
US-PATENT-CLASS-313-161	c 25	N73-25760 *	US-PATENT-CLASS-315-10	c 33	N74-21850 *	US-PATENT-CLASS-315-5.35	c 33	N74-10195 *
US-PATENT-CLASS-313-161	c 09	N73-30181 *	US-PATENT-CLASS-315-10	c 33	N75-26244 *	US-PATENT-CLASS-315-5.35	c 33	N83-31952 *
US-PATENT-CLASS-313-161	c 33	N77-21315 *	US-PATENT-CLASS-315-110	c 33	N77-21316 *	US-PATENT-CLASS-315-5.38	c 09	N73-13208 *
US-PATENT-CLASS-313-175	c 33	N77-21316 *	US-PATENT-CLASS-315-111.2	c 75	N78-27913 *	US-PATENT-CLASS-315-5.38	c 33	N74-10195 *
US-PATENT-CLASS-313-175	c 31	N78-17238 *	US-PATENT-CLASS-315-111.31	c 33	N85-21491 *	US-PATENT-CLASS-315-5.38	c 33	N82-24415 *
US-PATENT-CLASS-313-176	c 31	N78-17238 *	US-PATENT-CLASS-315-111.3	c 20	N77-10148 *	US-PATENT-CLASS-315-5.38	c 24	N83-10117 *
US-PATENT-CLASS-313-180	c 33	N77-21316 *	US-PATENT-CLASS-315-111.3	c 20	N77-20162 *	US-PATENT-CLASS-315-5.38	c 33	N83-31952 *
US-PATENT-CLASS-313-180	c 31	N78-17238 *	US-PATENT-CLASS-315-111.6	c 75	N76-14931 *	US-PATENT-CLASS-315-5.38	c 70	N84-28565 *
US-PATENT-CLASS-313-182	c 33	N77-22386 *	US-PATENT-CLASS-315-111.6	c 20	N77-20162 *	US-PATENT-CLASS-315-5.38	c 37	N85-33489 *
US-PATENT-CLASS-313-184	c 33	N77-21315 *	US-PATENT-CLASS-315-111.81	c 33	N85-21491 *	US-PATENT-CLASS-315-5.38	c 31	N86-32587 *
US-PATENT-CLASS-313-184	c 33	N77-21316 *	US-PATENT-CLASS-315-111	c 33	N87-21234 *	US-PATENT-CLASS-315.5	c 33	N83-31952 *
US-PATENT-CLASS-313-184	c 31	N78-17238 *	US-PATENT-CLASS-315-111	c 25	N70-33267 *	US-PATENT-CLASS-317-DIG.3	c 10	N71-26334 *
US-PATENT-CLASS-313-186	c 25	N72-24753 *	US-PATENT-CLASS-315-111	c 25	N70-41628 *	US-PATENT-CLASS-317-DIG.6	c 10	N73-26228 *
US-PATENT-CLASS-313-209	c 33	N74-12913 *	US-PATENT-CLASS-315-111	c 25	N71-15562 *	US-PATENT-CLASS-317-100	c 10	N71-28783 *
US-PATENT-CLASS-313-212	c 25	N72-24753 *	US-PATENT-CLASS-315-111	c 24	N71-16213 *	US-PATENT-CLASS-317-100	c 10	N73-25243 *
US-PATENT-CLASS-313-217	c 28	N73-27699 *	US-PATENT-CLASS-315-111	c 25	N71-21693 *	US-PATENT-CLASS-317-101A	c 09	N72-33205 *
US-PATENT-CLASS-313-217	c 33	N74-12913 *	US-PATENT-CLASS-315-111	c 28	N71-26781 *	US-PATENT-CLASS-317-101A	c 23	N73-13660 *
US-PATENT-CLASS-313-218	c 28	N73-27699 *	US-PATENT-CLASS-315-111	c 25	N71-29184 *	US-PATENT-CLASS-317-101DH	c 15	N72-22486 *
US-PATENT-CLASS-313-224	c 25	N72-24753 *	US-PATENT-CLASS-315-111	c 09	N71-33519 *	US-PATENT-CLASS-317-101DH	c 10	N73-25243 *
US-PATENT-CLASS-313-224	c 33	N74-12913 *	US-PATENT-CLASS-315-111	c 25	N72-24753 *	US-PATENT-CLASS-317-101	c 09	N71-26133 *
US-PATENT-CLASS-313-224	c 33	N77-21315 *	US-PATENT-CLASS-315-111	c 25	N72-32688 *	US-PATENT-CLASS-317-117	c 15	N72-22486 *
US-PATENT-CLASS-313-224	c 31	N78-17238 *	US-PATENT-CLASS-315-111	c 14	N73-30391 *	US-PATENT-CLASS-317-120	c 15	N72-22486 *
US-PATENT-CLASS-313-22	c 09	N71-26787 *	US-PATENT-CLASS-315-111	c 75	N75-13625 *	US-PATENT-CLASS-317-122	c 15	N71-18701 *
US-PATENT-CLASS-313-22	c 31	N78-17237 *	US-PATENT-CLASS-315-111	c 33	N75-29318 *	US-PATENT-CLASS-317-123	c 09	N71-24892 *
US-PATENT-CLASS-313-22	c 31	N78-25256 *	US-PATENT-CLASS-315-111	c 37	N75-29426 *	US-PATENT-CLASS-317-140	c 09	N70-34502 *
US-PATENT-CLASS-313-22	c 34	N79-20336 *	US-PATENT-CLASS-315-11	c 33	N74-21850 *	US-PATENT-CLASS-317-148.5	c 10	N71-23271 *
US-PATENT-CLASS-313-230	c 28	N71-28850 *	US-PATENT-CLASS-315-12	c 33	N74-21850 *	US-PATENT-CLASS-317-148.5	c 09	N71-24892 *
US-PATENT-CLASS-313-230	c 28	N73-27699 *	US-PATENT-CLASS-315-135	c 09	N72-25250 *	US-PATENT-CLASS-317-153	c 10	N71-26334 *
US-PATENT-CLASS-313-230	c 20	N77-20162 *	US-PATENT-CLASS-315-145	c 33	N80-14330 *	US-PATENT-CLASS-317-155.5	c 09	N71-29008 *
US-PATENT-CLASS-313-231.3	c 20	N77-20162 *	US-PATENT-CLASS-315-151	c 14	N72-27411 *	US-PATENT-CLASS-317-157.5	c 15	N69-21472 * #
US-PATENT-CLASS-313-231.3	c 75	N78-27913 *	US-PATENT-CLASS-315-153	c 14	N73-16483 *	US-PATENT-CLASS-317-158	c 15	N73-28516 *
US-PATENT-CLASS-313-231.4	c 20	N77-10148 *	US-PATENT-CLASS-315-153	c 74	N79-12890 *	US-PATENT-CLASS-317-158	c 26	N73-28710 *
US-PATENT-CLASS-313-231.4	c 72	N80-33186 *	US-PATENT-CLASS-315-156	c 14	N72-27411 *	US-PATENT-CLASS-317-158	c 15	N73-32361 *
US-PATENT-CLASS-313-231	c 06	N69-39889 * #	US-PATENT-CLASS-315-158	c 14	N72-27411 *	US-PATENT-CLASS-317-16	c 09	N69-39897 * #
US-PATENT-CLASS-313-231	c 09	N71-23190 *	US-PATENT-CLASS-315-160	c 09	N71-12540 *	US-PATENT-CLASS-317-16	c 33	N74-17929 *
US-PATENT-CLASS-313-231	c 09	N71-33519 *	US-PATENT-CLASS-315-169R	c 23	N73-13660 *	US-PATENT-CLASS-317-20	c 33	N77-10429 *
US-PATENT-CLASS-313-231	c 25	N72-24753 *	US-PATENT-CLASS-315-169R	c 36	N75-19652 *	US-PATENT-CLASS-317-20	c 10	N71-26531 *
US-PATENT-CLASS-313-231	c 25	N72-32688 *	US-PATENT-CLASS-315-169TV	c 23	N73-13660 *	US-PATENT-CLASS-317-230	c 09	N71-27232 *
US-PATENT-CLASS-313-231	c 28	N73-24783 *	US-PATENT-CLASS-315-176	c 33	N77-28385 *	US-PATENT-CLASS-317-230	c 26	N72-28761 *
US-PATENT-CLASS-313-231	c 25	N73-25760 *	US-PATENT-CLASS-315-18	c 32	N74-20813 *	US-PATENT-CLASS-317-231	c 09	N71-27232 *
US-PATENT-CLASS-313-236	c 09	N71-26182 *	US-PATENT-CLASS-315-18	c 33	N75-19517 *	US-PATENT-CLASS-317-234A	c 15	N73-14469 *
US-PATENT-CLASS-313-237	c 09	N71-26182 *	US-PATENT-CLASS-315-208	c 33	N83-34189 *	US-PATENT-CLASS-317-234D	c 14	N72-31446 *
US-PATENT-CLASS-313-237	c 33	N87-28832 *	US-PATENT-CLASS-315-209CD	c 37	N79-11405 *	US-PATENT-CLASS-317-234E	c 33	N74-12951 *
US-PATENT-CLASS-313-240	c 20	N77-10148 *	US-PATENT-CLASS-315-209SC	c 37	N79-11405 *	US-PATENT-CLASS-317-234F	c 33	N74-12951 *
US-PATENT-CLASS-313-250	c 31	N76-31365 *	US-PATENT-CLASS-315-211	c 33	N74-20859 *	US-PATENT-CLASS-317-234G	c 14	N72-31446 *
US-PATENT-CLASS-313-271	c 25	N71-20747 *	US-PATENT-CLASS-315-22R	c 10	N72-31273 *	US-PATENT-CLASS-317-234G	c 15	N73-14469 *
US-PATENT-CLASS-313-278	c 33	N87-28832 *	US-PATENT-CLASS-315-224	c 33	N83-34189 *	US-PATENT-CLASS-317-234G	c 09	N73-27150 * #
US-PATENT-CLASS-313-306	c 31	N76-31365 *	US-PATENT-CLASS-315-225	c 33	N83-34189 *	US-PATENT-CLASS-317-234J	c 26	N72-25679 *
US-PATENT-CLASS-313-309	c 10	N72-27246 *	US-PATENT-CLASS-315-228	c 33	N74-20859 *	US-PATENT-CLASS-317-234L	c 09	N73-27150 * #
US-PATENT-CLASS-313-309	c 31	N76-31365 *	US-PATENT-CLASS-315-22	c 10	N72-20225 *	US-PATENT-CLASS-317-234M	c 33	N74-12951 *
US-PATENT-CLASS-313-311	c 73	N77-18891 *	US-PATENT-CLASS-315-22	c 32	N74-20813 *	US-PATENT-CLASS-317-234M	c 09	N73-27150 * #
US-PATENT-CLASS-313-32	c 33	N74-12913 *	US-PATENT-CLASS-315-22	c 33	N78-17293 *	US-PATENT-CLASS-317-234N	c 09	N73-27150 * #
US-PATENT-CLASS-313-32	c 33	N77-21315 *	US-PATENT-CLASS-315-237	c 33	N83-34189 *	US-PATENT-CLASS-317-234N	c 33	N74-12951 *
US-PATENT-CLASS-313-336	c 10	N72-27246 *	US-PATENT-CLASS-315-241R	c 37	N79-11405 *	US-PATENT-CLASS-317-234R	c 09	N73-27150 * #
US-PATENT-CLASS-313-338	c 31	N76-31365 *	US-PATENT-CLASS-315-241R	c 33	N83-34189 *	US-PATENT-CLASS-317-234R	c 33	N74-12951 *
US-PATENT-CLASS-313-348	c 35	N82-24471 *	US-PATENT-CLASS-315-241	c 09	N71-13518 *	US-PATENT-CLASS-317-234V	c 26	N72-21701 *
US-PATENT-CLASS-313-351	c 10	N72-27246 *	US-PATENT-CLASS-315-248	c 09	N73-30181 *	US-PATENT-CLASS-317-234V	c 09	N73-15235 *
US-PATENT-CLASS-313-351	c 70	N84-28565 *	US-PATENT-CLASS-315-24	c 08	N71-20571 *	US-PATENT-CLASS-317-234	c 14	N69-23191 * #
US-PATENT-CLASS-313-352	c 09	N71-22987 *	US-PATENT-CLASS-315-258	c 16	N73-32391 *	US-PATENT-CLASS-317-234	c 09	N69-27422 * #
US-PATENT-CLASS-313-355	c 28	N73-27699 *	US-PATENT-CLASS-315-25	c 10	N72-20225 *	US-PATENT-CLASS-317-234	c 26	N71-18064 *
US-PATENT-CLASS-313-356	c 14	N72-29464 *	US-PATENT-CLASS-315-260	c 33	N80-14330 *	US-PATENT-CLASS-317-235AG	c 09	N73-15235 *
US-PATENT-CLASS-313-359.1	c 72	N87-21660 *	US-PATENT-CLASS-315-26	c 09	N71-23189 *	US-PATENT-CLASS-317-235AJ	c 26	N72-25679 *
US-PATENT-CLASS-313-35	c 34	N79-20336 *	US-PATENT-CLASS-315-297	c 14	N72-27411 *	US-PATENT-CLASS-317-235AM	c 09	N73-32305 *
US-PATENT-CLASS-313-360	c 20	N77-20162 *	US-PATENT-CLASS-315-3.5	c 09	N73-13208 *	US-PATENT-CLASS-317-235AM	c 09	N73-19235 *
US-PATENT-CLASS-313-361.1	c 72	N87-21660 *	US-PATENT-CLASS-315-3.5	c 33	N79-10339 *	US-PATENT-CLASS-317-235A	c 26	N72-25679 *
US-PATENT-CLASS-313-361	c 20	N77-10148 *	US-PATENT-CLASS-315-3.5	c 33	N82-26568 *	US-PATENT-CLASS-317-235A	c 09	N72-33205 *
US-PATENT-CLASS-313-362.1	c 72	N87-21660 *	US-PATENT-CLASS-315-3.5	c 33	N84-16452 *	US-PATENT-CLASS-317-235H	c 35	N75-13213 *
US-PATENT-CLASS-313-362	c 72	N80-27163 *	US-PATENT-CLASS-315-3.5	c 37	N85-33489 *	US-PATENT-CLASS-317-235K	c 09	N73-15235 *
US-PATENT-CLASS-313-362	c 72	N80-33186 *	US-PATENT-CLASS-315-3.5	c 33	N86-21742 *	US-PATENT-CLASS-317-235M	c 14	N72-31446 *
US-PATENT-CLASS-313-363	c 72	N80-27163 *	US-PATENT-CLASS-315-3.6	c 33	N79-10339 *	US-PATENT-CLASS-317-235N	c 09	N73-19235 *
US-PATENT-CLASS-313-442	c 74	N78-18905 *	US-PATENT-CLASS-315-3.6	c 33	N82-24415 *	US-PATENT-CLASS-317-235N	c 35	N74-15090 *
US-PATENT-CLASS-313-44	c 15	N69-24319 * #	US-PATENT-CLASS-315-3.6	c 33	N82-26568 *	US-PATENT-CLASS-317-235R	c 26	N72-21701 *
US-PATENT-CLASS-313-505	c 33	N87-28831 *	US-PATENT-CLASS-315-3.6	c 33	N84-16452 *	US-PATENT-CLASS-317-235R	c 26	N72-25679 *
US-PATENT-CLASS-313-506	c 33	N87-28831 *	US-PATENT-CLASS-315-3.6	c 33	N84-27974 *	US-PATENT-CLASS-317-235R	c 14	N72-31446 *
US-PATENT-CLASS-313-509	c 33	N87-28831 *	US-PATENT-CLASS-315-3.6	c 33	N86-21742 *	US-PATENT-CLASS-317-235R	c 09	N73-19235 *
US-PATENT-CLASS-313-60	c 33	N77-22386 *	US-PATENT-CLASS-315-30R	c 10	N72-31273 *	US-PATENT-CLASS-317-235R	c 09	N73-32112 *

US-PATENT-CLASS-317-235T	c 09	N73-19235 *	US-PATENT-CLASS-318-489	c 02	N73-19004 *	US-PATENT-CLASS-321-10	c 09	N72-17154 *
US-PATENT-CLASS-317-235UA	c 09	N73-19235 *	US-PATENT-CLASS-318-48	c 37	N86-27629 *	US-PATENT-CLASS-321-11	c 09	N69-39984 *
US-PATENT-CLASS-317-235WWW	c 09	N73-32112 *	US-PATENT-CLASS-318-504	c 09	N71-28886 *	US-PATENT-CLASS-321-11	c 09	N72-25252 *
US-PATENT-CLASS-317-235	c 09	N69-24318 *	US-PATENT-CLASS-318-561	c 33	N82-18493 *	US-PATENT-CLASS-321-11	c 10	N73-26228 *
US-PATENT-CLASS-317-235	c 09	N72-33205 *	US-PATENT-CLASS-318-564	c 60	N82-29013 *	US-PATENT-CLASS-321-12	c 10	N71-27366 *
US-PATENT-CLASS-317-238	c 09	N71-27232 *	US-PATENT-CLASS-318-571	c 10	N71-27136 *	US-PATENT-CLASS-321-13	c 33	N77-14333 *
US-PATENT-CLASS-317-245	c 33	N79-21265 *	US-PATENT-CLASS-318-573	c 35	N79-14348 *	US-PATENT-CLASS-321-14	c 09	N72-22196 *
US-PATENT-CLASS-317-246	c 14	N69-21541 *	US-PATENT-CLASS-318-576	c 09	N72-21246 *	US-PATENT-CLASS-321-15	c 09	N72-22203 *
US-PATENT-CLASS-317-246	c 33	N76-21390 *	US-PATENT-CLASS-318-577	c 37	N86-21850 *	US-PATENT-CLASS-321-15	c 33	N75-19522 *
US-PATENT-CLASS-317-246	c 35	N76-22509 *	US-PATENT-CLASS-318-580	c 08	N74-10942 *	US-PATENT-CLASS-321-18	c 09	N72-22203 *
US-PATENT-CLASS-317-247	c 14	N72-24477 *	US-PATENT-CLASS-318-580	c 04	N82-23231 *	US-PATENT-CLASS-321-18	c 09	N72-25251 *
US-PATENT-CLASS-317-258	c 09	N71-13522 *	US-PATENT-CLASS-318-584	c 08	N81-24106 *	US-PATENT-CLASS-321-18	c 09	N72-25252 *
US-PATENT-CLASS-317-258	c 33	N76-15373 *	US-PATENT-CLASS-318-584	c 08	N86-27288 *	US-PATENT-CLASS-321-18	c 33	N74-11049 *
US-PATENT-CLASS-317-261	c 26	N72-28761 *	US-PATENT-CLASS-318-585	c 08	N79-23097 *	US-PATENT-CLASS-321-19	c 09	N72-22196 *
US-PATENT-CLASS-317-261	c 33	N76-15373 *	US-PATENT-CLASS-318-587	c 35	N84-33769 *	US-PATENT-CLASS-321-19	c 09	N72-25252 *
US-PATENT-CLASS-317-31	c 09	N71-12526 *	US-PATENT-CLASS-318-594	c 35	N79-14348 *	US-PATENT-CLASS-321-19	c 33	N77-10428 *
US-PATENT-CLASS-317-31	c 10	N71-23543 *	US-PATENT-CLASS-318-599	c 10	N71-24861 *	US-PATENT-CLASS-321-25	c 09	N72-22196 *
US-PATENT-CLASS-317-31	c 33	N74-17929 *	US-PATENT-CLASS-318-602	c 33	N74-29556 *	US-PATENT-CLASS-321-2	c 03	N69-21330 *
US-PATENT-CLASS-317-31	c 33	N77-14333 *	US-PATENT-CLASS-318-603	c 33	N74-29556 *	US-PATENT-CLASS-321-2	c 03	N69-25146 *
US-PATENT-CLASS-317-33SC	c 33	N74-14956 *	US-PATENT-CLASS-318-605	c 31	N86-29055 *	US-PATENT-CLASS-321-2	c 03	N71-12255 *
US-PATENT-CLASS-317-33	c 10	N71-26531 *	US-PATENT-CLASS-318-608	c 33	N75-13139 *	US-PATENT-CLASS-321-2	c 09	N71-23188 *
US-PATENT-CLASS-317-33	c 09	N71-27001 *	US-PATENT-CLASS-318-611	c 37	N85-30333 *	US-PATENT-CLASS-321-2	c 03	N71-23239 *
US-PATENT-CLASS-317-33	c 10	N71-27366 *	US-PATENT-CLASS-318-616	c 08	N79-23097 *	US-PATENT-CLASS-321-2	c 10	N71-26085 *
US-PATENT-CLASS-317-33	c 09	N71-29008 *	US-PATENT-CLASS-318-620	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 09	N72-22196 *
US-PATENT-CLASS-317-43	c 33	N74-14956 *	US-PATENT-CLASS-318-621	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 09	N72-22196 *
US-PATENT-CLASS-317-46	c 33	N74-14956 *	US-PATENT-CLASS-318-622	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 03	N72-23048 *
US-PATENT-CLASS-317-47	c 33	N74-14956 *	US-PATENT-CLASS-318-628	c 08	N74-10942 *	US-PATENT-CLASS-321-2	c 09	N72-25249 *
US-PATENT-CLASS-317-48	c 33	N74-14956 *	US-PATENT-CLASS-318-632	c 37	N86-27629 *	US-PATENT-CLASS-321-2	c 09	N72-25251 *
US-PATENT-CLASS-317-54	c 09	N71-29008 *	US-PATENT-CLASS-318-636	c 31	N86-29055 *	US-PATENT-CLASS-321-2	c 09	N72-25252 *
US-PATENT-CLASS-317-60	c 09	N71-29008 *	US-PATENT-CLASS-318-640	c 33	N75-13139 *	US-PATENT-CLASS-321-2	c 09	N72-25253 *
US-PATENT-CLASS-317-9	c 09	N71-22796 *	US-PATENT-CLASS-318-640	c 54	N75-27758 *	US-PATENT-CLASS-321-2	c 09	N72-25254 *
US-PATENT-CLASS-317-9	c 09	N71-27001 *	US-PATENT-CLASS-318-640	c 35	N79-14348 *	US-PATENT-CLASS-321-2	c 33	N74-11049 *
US-PATENT-CLASS-318-107	c 44	N87-21410 *	US-PATENT-CLASS-318-640	c 37	N81-27519 *	US-PATENT-CLASS-321-2	c 10	N77-10428 *
US-PATENT-CLASS-318-116	c 71	N79-20827 *	US-PATENT-CLASS-318-649	c 08	N86-27288 *	US-PATENT-CLASS-321-45C	c 33	N73-26228 *
US-PATENT-CLASS-318-116	c 71	N84-23233 *	US-PATENT-CLASS-318-653	c 33	N75-13139 *	US-PATENT-CLASS-321-45ER	c 09	N72-25252 *
US-PATENT-CLASS-318-116	c 33	N87-28833 *	US-PATENT-CLASS-318-653	c 10	N71-27136 *	US-PATENT-CLASS-321-45R	c 09	N72-25252 *
US-PATENT-CLASS-318-135	c 33	N82-24421 *	US-PATENT-CLASS-318-661	c 31	N86-29055 *	US-PATENT-CLASS-321-45R	c 09	N72-25254 *
US-PATENT-CLASS-318-137	c 33	N75-19524 *	US-PATENT-CLASS-318-663	c 37	N81-33483 *	US-PATENT-CLASS-321-45R	c 33	N74-22864 *
US-PATENT-CLASS-318-138	c 09	N71-10677 *	US-PATENT-CLASS-318-663	c 37	N86-27629 *	US-PATENT-CLASS-321-45S	c 33	N74-11049 *
US-PATENT-CLASS-318-138	c 14	N71-17585 *	US-PATENT-CLASS-318-664	c 33	N74-29556 *	US-PATENT-CLASS-321-45	c 09	N71-24800 *
US-PATENT-CLASS-318-138	c 10	N71-18772 *	US-PATENT-CLASS-318-675	c 33	N75-13139 *	US-PATENT-CLASS-321-45	c 09	N72-22203 *
US-PATENT-CLASS-318-138	c 09	N71-25999 *	US-PATENT-CLASS-318-675	c 37	N77-27400 *	US-PATENT-CLASS-321-47	c 09	N71-33109 *
US-PATENT-CLASS-318-138	c 33	N77-26386 *	US-PATENT-CLASS-318-685	c 33	N83-35227 *	US-PATENT-CLASS-321-47	c 09	N72-22203 *
US-PATENT-CLASS-318-138	c 33	N81-20352 *	US-PATENT-CLASS-318-729	c 33	N83-34190 *	US-PATENT-CLASS-321-48	c 12	N71-20896 *
US-PATENT-CLASS-318-138	c 33	N87-21233 *	US-PATENT-CLASS-318-729	c 33	N84-14424 *	US-PATENT-CLASS-321-5	c 08	N71-18752 *
US-PATENT-CLASS-318-15	c 37	N80-32716 *	US-PATENT-CLASS-318-729	c 33	N84-22885 *	US-PATENT-CLASS-321-60	c 14	N71-23174 *
US-PATENT-CLASS-318-161	c 44	N87-21410 *	US-PATENT-CLASS-318-729	c 33	N84-22886 *	US-PATENT-CLASS-321-61	c 09	N71-27364 *
US-PATENT-CLASS-318-167	c 33	N75-19524 *	US-PATENT-CLASS-318-729	c 33	N84-27975 *	US-PATENT-CLASS-321-64	c 09	N71-27364 *
US-PATENT-CLASS-318-176	c 33	N75-19524 *	US-PATENT-CLASS-318-729	c 33	N84-33661 *	US-PATENT-CLASS-321-69	c 10	N71-26414 *
US-PATENT-CLASS-318-183	c 33	N75-19524 *	US-PATENT-CLASS-318-729	c 44	N85-21769 *	US-PATENT-CLASS-321-8R	c 35	N74-18090 *
US-PATENT-CLASS-318-20.105	c 08	N71-27057 *	US-PATENT-CLASS-318-729	c 33	N85-28277 *	US-PATENT-CLASS-321-9	c 10	N71-25139 *
US-PATENT-CLASS-318-200	c 33	N78-10376 *	US-PATENT-CLASS-318-798	c 33	N83-34190 *	US-PATENT-CLASS-322-2R	c 07	N83-20944 *
US-PATENT-CLASS-318-227	c 07	N71-33613 *	US-PATENT-CLASS-318-798	c 33	N83-35227 *	US-PATENT-CLASS-322-25	c 33	N84-33660 *
US-PATENT-CLASS-318-227	c 33	N75-15874 *	US-PATENT-CLASS-318-798	c 33	N84-14424 *	US-PATENT-CLASS-322-29	c 33	N83-28319 *
US-PATENT-CLASS-318-227	c 33	N77-26386 *	US-PATENT-CLASS-318-798	c 33	N84-22885 *	US-PATENT-CLASS-322-29	c 33	N84-33660 *
US-PATENT-CLASS-318-227	c 33	N78-10376 *	US-PATENT-CLASS-318-799	c 33	N81-27395 *	US-PATENT-CLASS-322-2	c 03	N72-23048 *
US-PATENT-CLASS-318-22	c 15	N71-17694 *	US-PATENT-CLASS-318-799	c 33	N84-16455 *	US-PATENT-CLASS-322-32	c 09	N71-27364 *
US-PATENT-CLASS-318-230	c 07	N71-33613 *	US-PATENT-CLASS-318-800	c 33	N83-31953 *	US-PATENT-CLASS-322-35	c 33	N83-28319 *
US-PATENT-CLASS-318-230	c 10	N73-32145 *	US-PATENT-CLASS-318-802	c 33	N84-33661 *	US-PATENT-CLASS-322-47	c 33	N83-28319 *
US-PATENT-CLASS-318-230	c 33	N75-15874 *	US-PATENT-CLASS-318-803	c 33	N83-10345 *	US-PATENT-CLASS-322-47	c 33	N84-33660 *
US-PATENT-CLASS-318-230	c 33	N78-10376 *	US-PATENT-CLASS-318-803	c 33	N83-31953 *	US-PATENT-CLASS-322-95	c 33	N83-28319 *
US-PATENT-CLASS-318-231	c 10	N73-32145 *	US-PATENT-CLASS-318-805	c 33	N84-22885 *	US-PATENT-CLASS-322-95	c 33	N84-33660 *
US-PATENT-CLASS-318-231	c 33	N75-15874 *	US-PATENT-CLASS-318-806	c 33	N82-26569 *	US-PATENT-CLASS-322-96	c 33	N77-26387 *
US-PATENT-CLASS-318-254	c 09	N71-25999 *	US-PATENT-CLASS-318-806	c 33	N83-34190 *	US-PATENT-CLASS-323-DIG.1	c 09	N72-21243 *
US-PATENT-CLASS-318-254	c 09	N73-32107 *	US-PATENT-CLASS-318-806	c 33	N83-35227 *	US-PATENT-CLASS-323-DIG.1	c 09	N72-22429 *
US-PATENT-CLASS-318-254	c 33	N77-26386 *	US-PATENT-CLASS-318-806	c 33	N84-14424 *	US-PATENT-CLASS-323-DIG.1	c 33	N74-11049 *
US-PATENT-CLASS-318-254	c 33	N81-20352 *	US-PATENT-CLASS-318-809	c 33	N83-31953 *	US-PATENT-CLASS-323-DIG.1	c 33	N77-10428 *
US-PATENT-CLASS-318-254	c 33	N82-26569 *	US-PATENT-CLASS-318-809	c 33	N84-27975 *	US-PATENT-CLASS-323-106	c 33	N74-22885 *
US-PATENT-CLASS-318-254	c 33	N87-21233 *	US-PATENT-CLASS-318-810	c 33	N81-27395 *	US-PATENT-CLASS-323-122	c 33	N74-22885 *
US-PATENT-CLASS-318-257	c 10	N71-18724 *	US-PATENT-CLASS-318-810	c 33	N84-22885 *	US-PATENT-CLASS-323-128	c 33	N74-22885 *
US-PATENT-CLASS-318-258	c 09	N71-26092 *	US-PATENT-CLASS-318-812	c 33	N82-26569 *	US-PATENT-CLASS-323-15	c 20	N79-20179 *
US-PATENT-CLASS-318-260	c 09	N70-38712 *	US-PATENT-CLASS-318-812	c 33	N84-22886 *	US-PATENT-CLASS-323-15	c 44	N80-14472 *
US-PATENT-CLASS-318-265	c 15	N71-24895 *	US-PATENT-CLASS-318-812	c 33	N85-22877 *	US-PATENT-CLASS-323-17	c 09	N72-25249 *
US-PATENT-CLASS-318-267	c 37	N77-27400 *	US-PATENT-CLASS-318-830	c 33	N82-26569 *	US-PATENT-CLASS-323-17	c 33	N77-10428 *
US-PATENT-CLASS-318-308	c 11	N72-20244 *	US-PATENT-CLASS-318-8	c 37	N86-27629 *	US-PATENT-CLASS-323-18	c 33	N78-17295 *
US-PATENT-CLASS-318-314	c 10	N71-20448 *	US-PATENT-CLASS-32-28	c 05	N73-27062 *	US-PATENT-CLASS-323-19	c 08	N72-31226 *
US-PATENT-CLASS-318-314	c 09	N75-24758 *	US-PATENT-CLASS-32-58	c 05	N73-27062 *	US-PATENT-CLASS-323-19	c 33	N78-17296 *
US-PATENT-CLASS-318-317	c 09	N71-28886 *	US-PATENT-CLASS-320-13	c 03	N71-29129 *	US-PATENT-CLASS-323-19	c 44	N80-14472 *
US-PATENT-CLASS-318-318	c 09	N71-24805 *	US-PATENT-CLASS-320-13	c 44	N78-25531 *	US-PATENT-CLASS-323-20	c 14	N71-27407 *
US-PATENT-CLASS-318-318	c 09	N75-24758 *	US-PATENT-CLASS-320-15	c 44	N78-14625 *	US-PATENT-CLASS-323-20	c 20	N79-20179 *
US-PATENT-CLASS-318-31	c 15	N71-28952 *	US-PATENT-CLASS-320-15	c 44	N78-25531 *	US-PATENT-CLASS-323-22T	c 09	N72-21243 *
US-PATENT-CLASS-318-327	c 11	N72-20244 *	US-PATENT-CLASS-320-17	c 03	N71-24605 *	US-PATENT-CLASS-323-22T	c 09	N72-25249 *
US-PATENT-CLASS-318-328	c 09	N73-32107 *	US-PATENT-CLASS-320-18	c 44	N78-14625 *	US-PATENT-CLASS-323-22T	c 33	N77-10428 *
US-PATENT-CLASS-318-331	c 09	N71-28886 *	US-PATENT-CLASS-320-21	c 44	N76-18643 *	US-PATENT-CLASS-323-22T	c 33	N79-23345 *
US-PATENT-CLASS-318-341	c 10	N73-32145 *	US-PATENT-CLASS-320-22	c 44	N76-18643 *	US-PATENT-CLASS-323-22	c 09	N71-21449 *
US-PATENT-CLASS-318-341	c 09	N75-24758 *	US-PATENT-CLASS-320-23	c 03	N71-19438 *	US-PATENT-CLASS-323-22	c 09	N71-23316 *
US-PATENT-CLASS-318-345	c 09	N71-28886 *	US-PATENT-CLASS-320-2	c 44	N77-14581 *	US-PATENT-CLASS-323-23	c 33	N77-10428 *
US-PATENT-CLASS-318-376	c 10	N71-16030 *	US-PATENT-CLASS-320-32	c 44	N78-25531 *	US-PATENT-CLASS-323-243	c 33	N84-16455 *
US-PATENT-CLASS-318-376	c 11	N72-20244 *	US-PATENT-CLASS-320-39	c 03	N71-24719 *	US-PATENT-CLASS-323-246	c 33	N84-16455 *
US-PATENT-CLASS-318-382	c 15	N71-24695 *	US-PATENT-CLASS-320-39	c 44	N78-25531 *	US-PATENT-CLASS-323-269	c 33	N83-27126 *
US-PATENT-CLASS-318-438	c 33	N84-22885 *	US-PATENT-CLASS-320-40	c 44	N78-14625 *	US-PATENT-CLASS-323-300	c 33	N84-27975 *
US-PATENT-CLASS-318-439	c 33	N81-20352 *	US-PATENT-CLASS-320-48	c 03	N72-25020 *	US-PATENT-CLASS-323-303	c 33	N83-27126 *
US-PATENT-CLASS-318-439	c 33	N87-21233 *	US-PATENT-CLASS-320-53	c 33	N78-17296 *	US-PATENT-CLASS-323-350	c 33	N83-27126 *
US-PATENT-CLASS-318-468	c 37	N77-27400 *	US-PATENT-CLASS-320-6	c 44	N78-14625 *	US-PATENT-CLASS-323-38	c 09	N72-21243 *
US-PATENT-CLASS-318-46	c 44	N85-21769 *	US-PATENT-CLASS-320-9	c 44	N78-25531 *	US-PATENT-CLASS-323-44F	c 33	N79-17133 *
US-PATENT-CLASS-318-470	c 37	N77-27400 *	US-PATENT-CLASS-321-1.5	c 09	N73-32109 *	US-PATENT-CLASS-323-48	c 09	N71-27053 *

US-PATENT-CLASS-323-48	c 09	N72-25262 *	US-PATENT-CLASS-324-33	c 14	N71-27090 *	US-PATENT-CLASS-324-77G	c 08	N72-20177 *
US-PATENT-CLASS-323-4	c 33	N78-17294 *	US-PATENT-CLASS-324-34FL	c 35	N74-21018 *	US-PATENT-CLASS-324-77H	c 35	N75-21582 *
US-PATENT-CLASS-323-56	c 10	N71-22961 *	US-PATENT-CLASS-324-34R	c 26	N76-18257 *	US-PATENT-CLASS-324-77K	c 35	N79-10391 *
US-PATENT-CLASS-323-56	c 09	N71-24893 *	US-PATENT-CLASS-324-34	c 25	N71-16073 *	US-PATENT-CLASS-324-77R	c 10	N73-25240 *
US-PATENT-CLASS-323-56	c 09	N72-22196 *	US-PATENT-CLASS-324-404	c 44	N80-18551 *	US-PATENT-CLASS-324-77R	c 47	N82-24779 *
US-PATENT-CLASS-323-60	c 09	N71-27053 *	US-PATENT-CLASS-324-40	c 38	N74-15395 *	US-PATENT-CLASS-324-77	c 09	N71-10659
US-PATENT-CLASS-323-82	c 09	N72-25262 *	US-PATENT-CLASS-324-41	c 10	N72-28240 *	US-PATENT-CLASS-324-77	c 07	N71-24622 *
US-PATENT-CLASS-323-89C	c 09	N72-22196 *	US-PATENT-CLASS-324-427	c 35	N85-21596 *	US-PATENT-CLASS-324-78D	c 09	N72-25257 *
US-PATENT-CLASS-323-8	c 10	N71-10578 *	US-PATENT-CLASS-324-43R	c 35	N76-16390 *	US-PATENT-CLASS-324-78D	c 52	N74-12778 *
US-PATENT-CLASS-323-901	c 33	N84-33663 *	US-PATENT-CLASS-324-43	c 14	N69-27423 *	US-PATENT-CLASS-324-78E	c 14	N73-24473 *
US-PATENT-CLASS-323-93	c 33	N77-31404 *	US-PATENT-CLASS-324-43	c 09	N70-40123 *	US-PATENT-CLASS-324-78J	c 10	N73-25240 *
US-PATENT-CLASS-324-5R	c 16	N73-13489 *	US-PATENT-CLASS-324-43	c 14	N71-15962 *	US-PATENT-CLASS-324-78J	c 33	N75-19515 *
US-PATENT-CLASS-324-5	c 14	N71-20428 *	US-PATENT-CLASS-324-43	c 14	N71-26135 *	US-PATENT-CLASS-324-79D	c 14	N73-30386 *
US-PATENT-CLASS-324-DIG.1	c 33	N75-19520 *	US-PATENT-CLASS-324-43	c 14	N71-27325 *	US-PATENT-CLASS-324-79D	c 33	N76-16331 *
US-PATENT-CLASS-324-DIG.1	c 33	N75-25041 *	US-PATENT-CLASS-324-457	c 72	N84-28575 *	US-PATENT-CLASS-324-79R	c 14	N72-27408 *
US-PATENT-CLASS-324-05	c 14	N71-26137 *	US-PATENT-CLASS-324-466	c 33	N83-31954 *	US-PATENT-CLASS-324-79R	c 33	N84-16454 *
US-PATENT-CLASS-324-05	c 14	N71-26266 *	US-PATENT-CLASS-324-51	c 33	N80-26599 *	US-PATENT-CLASS-324-83A	c 10	N72-20224 *
US-PATENT-CLASS-324-05	c 36	N79-14362 *	US-PATENT-CLASS-324-51	c 33	N81-26359 *	US-PATENT-CLASS-324-83A	c 33	N84-16454 *
US-PATENT-CLASS-324-102	c 09	N72-11225 *	US-PATENT-CLASS-324-51	c 33	N82-24420 *	US-PATENT-CLASS-324-83D	c 33	N79-10338 *
US-PATENT-CLASS-324-102	c 33	N74-17930 *	US-PATENT-CLASS-324-52	c 14	N72-17325 *	US-PATENT-CLASS-324-83Q	c 35	N74-21017 *
US-PATENT-CLASS-324-102	c 33	N75-19521 *	US-PATENT-CLASS-324-52	c 14	N71-27325 *	US-PATENT-CLASS-324-83Q	c 33	N75-26243 *
US-PATENT-CLASS-324-102	c 33	N79-11315 *	US-PATENT-CLASS-324-52	c 33	N79-18193 *	US-PATENT-CLASS-324-83R	c 33	N84-16454 *
US-PATENT-CLASS-324-102	c 33	N79-14305 *	US-PATENT-CLASS-324-52	c 33	N82-24420 *	US-PATENT-CLASS-324-85	c 10	N72-20224 *
US-PATENT-CLASS-324-103	c 10	N71-27338 *	US-PATENT-CLASS-324-54	c 33	N75-18477 *	US-PATENT-CLASS-324-85	c 33	N79-10338 *
US-PATENT-CLASS-324-106	c 14	N70-38602 *	US-PATENT-CLASS-324-57DE	c 33	N78-25319 *	US-PATENT-CLASS-324-92	c 26	N72-25680 *
US-PATENT-CLASS-324-106	c 08	N71-29138 *	US-PATENT-CLASS-324-57H	c 35	N77-32455 *	US-PATENT-CLASS-324-95	c 10	N71-12554 *
US-PATENT-CLASS-324-107	c 10	N71-27338 *	US-PATENT-CLASS-324-57PS	c 35	N75-21582 *	US-PATENT-CLASS-324-95	c 14	N73-30388 *
US-PATENT-CLASS-324-112	c 33	N79-14305 *	US-PATENT-CLASS-324-57R	c 15	N72-21464 *	US-PATENT-CLASS-324-96	c 26	N72-25680 *
US-PATENT-CLASS-324-113	c 09	N70-41655 *	US-PATENT-CLASS-324-57R	c 14	N73-30388 *	US-PATENT-CLASS-324-96	c 33	N79-10337 *
US-PATENT-CLASS-324-113	c 33	N75-19521 *	US-PATENT-CLASS-324-57R	c 35	N74-18090 *	US-PATENT-CLASS-324-99D	c 33	N79-22373 *
US-PATENT-CLASS-324-113	c 33	N79-11315 *	US-PATENT-CLASS-324-57R	c 33	N79-10338 *	US-PATENT-CLASS-325-10	c 07	N72-12081 *
US-PATENT-CLASS-324-113	c 33	N79-14305 *	US-PATENT-CLASS-324-57R	c 35	N79-14349 *	US-PATENT-CLASS-325-113	c 07	N71-24840 *
US-PATENT-CLASS-324-115	c 14	N71-26244 *	US-PATENT-CLASS-324-57SS	c 33	N78-25319 *	US-PATENT-CLASS-325-113	c 07	N73-25160 *
US-PATENT-CLASS-324-115	c 10	N72-20222 *	US-PATENT-CLASS-324-57	c 10	N71-16057 *	US-PATENT-CLASS-325-113	c 52	N74-26625 *
US-PATENT-CLASS-324-117	c 14	N71-23037 *	US-PATENT-CLASS-324-57	c 09	N71-20569 *	US-PATENT-CLASS-325-114	c 07	N72-25171 *
US-PATENT-CLASS-324-118	c 33	N74-17930 *	US-PATENT-CLASS-324-58.5A	c 33	N75-26245 *	US-PATENT-CLASS-325-114	c 03	N76-32140 *
US-PATENT-CLASS-324-119	c 09	N72-11225 *	US-PATENT-CLASS-324-58.5B	c 43	N78-10529 *	US-PATENT-CLASS-325-115	c 03	N76-32140 *
US-PATENT-CLASS-324-120	c 14	N71-19431 *	US-PATENT-CLASS-324-58.5C	c 33	N75-26245 *	US-PATENT-CLASS-325-118	c 17	N78-17140 *
US-PATENT-CLASS-324-120	c 09	N71-23021 *	US-PATENT-CLASS-324-58.5	c 15	N71-17822 *	US-PATENT-CLASS-325-12	c 07	N73-20174 *
US-PATENT-CLASS-324-123C	c 33	N79-22373 *	US-PATENT-CLASS-324-58.5	c 25	N71-20563 *	US-PATENT-CLASS-325-139	c 07	N73-25160 *
US-PATENT-CLASS-324-123R	c 09	N72-11225 *	US-PATENT-CLASS-324-58.5	c 14	N71-26137 *	US-PATENT-CLASS-325-13	c 07	N72-12081 *
US-PATENT-CLASS-324-127	c 33	N79-18193 *	US-PATENT-CLASS-324-58.5	c 18	N71-27397 *	US-PATENT-CLASS-325-141	c 07	N72-25173 *
US-PATENT-CLASS-324-130	c 35	N78-28411 *	US-PATENT-CLASS-324-58A	c 33	N78-25319 *	US-PATENT-CLASS-325-141	c 52	N74-26625 *
US-PATENT-CLASS-324-132	c 09	N71-13530 *	US-PATENT-CLASS-324-59	c 35	N77-32455 *	US-PATENT-CLASS-325-143	c 05	N71-12342 *
US-PATENT-CLASS-324-132	c 10	N72-20222 *	US-PATENT-CLASS-324-59	c 14	N71-28991 *	US-PATENT-CLASS-325-145	c 32	N77-14292 *
US-PATENT-CLASS-324-133	c 10	N71-27338 *	US-PATENT-CLASS-324-60C	c 35	N75-12270 *	US-PATENT-CLASS-325-148	c 32	N74-19790 *
US-PATENT-CLASS-324-133	c 33	N79-10337 *	US-PATENT-CLASS-324-60C	c 76	N76-20994 *	US-PATENT-CLASS-325-14	c 17	N76-21250 *
US-PATENT-CLASS-324-133	c 33	N79-11315 *	US-PATENT-CLASS-324-60	c 33	N77-31404 *	US-PATENT-CLASS-325-14	c 32	N80-20448 *
US-PATENT-CLASS-324-133	c 33	N79-14305 *	US-PATENT-CLASS-324-61-R	c 35	N87-22953 *	US-PATENT-CLASS-325-151.11	c 08	N71-27057 *
US-PATENT-CLASS-324-133	c 33	N79-18193 *	US-PATENT-CLASS-324-61R	c 14	N72-24477 *	US-PATENT-CLASS-325-159	c 33	N78-32340 *
US-PATENT-CLASS-324-158-D	c 33	N87-22894 *	US-PATENT-CLASS-324-61R	c 35	N76-22509 *	US-PATENT-CLASS-325-163	c 07	N71-23405 *
US-PATENT-CLASS-324-158-R	c 33	N87-22894 *	US-PATENT-CLASS-324-61	c 14	N69-39785 *	US-PATENT-CLASS-325-16	c 07	N71-27056 *
US-PATENT-CLASS-324-158D	c 15	N72-25457 *	US-PATENT-CLASS-324-61	c 14	N70-36618 *	US-PATENT-CLASS-325-17	c 07	N73-20174 *
US-PATENT-CLASS-324-158D	c 76	N76-20994 *	US-PATENT-CLASS-324-61	c 14	N71-10797 *	US-PATENT-CLASS-325-185	c 07	N71-28430 *
US-PATENT-CLASS-324-158D	c 44	N80-18551 *	US-PATENT-CLASS-324-61	c 18	N71-27397 *	US-PATENT-CLASS-325-186	c 03	N76-32140 *
US-PATENT-CLASS-324-158D	c 76	N84-35112 *	US-PATENT-CLASS-324-61	c 14	N72-22442 *	US-PATENT-CLASS-325-187	c 33	N78-32340 *
US-PATENT-CLASS-324-158D	c 76	N85-30923 *	US-PATENT-CLASS-324-62R	c 14	N73-30388 *	US-PATENT-CLASS-325-23	c 07	N71-27056 *
US-PATENT-CLASS-324-158R	c 76	N76-20994 *	US-PATENT-CLASS-324-62	c 33	N80-32650 *	US-PATENT-CLASS-325-29	c 09	N72-22202 *
US-PATENT-CLASS-324-158R	c 33	N85-30187 *	US-PATENT-CLASS-324-64	c 15	N72-21464 *	US-PATENT-CLASS-325-302	c 07	N72-25173 *
US-PATENT-CLASS-324-158T	c 15	N72-25457 *	US-PATENT-CLASS-324-64	c 33	N80-32650 *	US-PATENT-CLASS-325-304	c 32	N76-14321 *
US-PATENT-CLASS-324-158T	c 35	N75-12270 *	US-PATENT-CLASS-324-65-P	c 35	N85-34373 *	US-PATENT-CLASS-325-305	c 07	N71-10775 *
US-PATENT-CLASS-324-158T	c 76	N76-20994 *	US-PATENT-CLASS-324-65P	c 14	N73-20478 *	US-PATENT-CLASS-325-305	c 10	N71-20841 *
US-PATENT-CLASS-324-158T	c 33	N80-14332 *	US-PATENT-CLASS-324-65R	c 15	N72-23497 *	US-PATENT-CLASS-325-305	c 07	N71-23098 *
US-PATENT-CLASS-324-158T	c 76	N84-35112 *	US-PATENT-CLASS-324-65R	c 33	N85-30187 *	US-PATENT-CLASS-325-305	c 32	N80-18253 *
US-PATENT-CLASS-324-158	c 09	N69-21926 *	US-PATENT-CLASS-324-65	c 14	N71-27186 *	US-PATENT-CLASS-325-306	c 32	N76-14321 *
US-PATENT-CLASS-324-163	c 35	N77-30436 *	US-PATENT-CLASS-324-66	c 05	N72-16015 *	US-PATENT-CLASS-325-307	c 32	N80-18253 *
US-PATENT-CLASS-324-165	c 35	N77-30436 *	US-PATENT-CLASS-324-70	c 14	N70-41332 *	US-PATENT-CLASS-325-30	c 32	N74-26654 *
US-PATENT-CLASS-324-173	c 35	N78-32396 *	US-PATENT-CLASS-324-70	c 14	N71-22990 *	US-PATENT-CLASS-325-30	c 32	N75-24981 *
US-PATENT-CLASS-324-174	c 35	N77-30436 *	US-PATENT-CLASS-324-70	c 10	N71-24863 *	US-PATENT-CLASS-325-30	c 32	N77-30308 *
US-PATENT-CLASS-324-181	c 09	N71-24717 *	US-PATENT-CLASS-324-71.3	c 72	N84-28575 *	US-PATENT-CLASS-325-31	c 07	N71-20791 *
US-PATENT-CLASS-324-186	c 09	N72-25257 *	US-PATENT-CLASS-324-71.5	c 76	N85-30923 *	US-PATENT-CLASS-325-320	c 33	N74-12887 *
US-PATENT-CLASS-324-186	c 52	N74-12778 *	US-PATENT-CLASS-324-71CP	c 35	N76-22509 *	US-PATENT-CLASS-325-320	c 32	N74-20809 *
US-PATENT-CLASS-324-20R	c 09	N72-23172 *	US-PATENT-CLASS-324-71CP	c 35	N82-11431 *	US-PATENT-CLASS-325-320	c 32	N74-20811 *
US-PATENT-CLASS-324-20R	c 44	N79-12541 *	US-PATENT-CLASS-324-71R	c 09	N72-21246 *	US-PATENT-CLASS-325-320	c 33	N74-27705 *
US-PATENT-CLASS-324-207	c 35	N78-32396 *	US-PATENT-CLASS-324-71R	c 15	N72-21464 *	US-PATENT-CLASS-325-321	c 07	N72-20140 *
US-PATENT-CLASS-324-226	c 35	N86-32698 *	US-PATENT-CLASS-324-71	c 09	N71-24843 *	US-PATENT-CLASS-325-321	c 32	N74-20810 *
US-PATENT-CLASS-324-22	c 44	N79-12541 *	US-PATENT-CLASS-324-72.5	c 44	N74-27519 *	US-PATENT-CLASS-325-321	c 32	N76-16249 *
US-PATENT-CLASS-324-238	c 35	N86-32698 *	US-PATENT-CLASS-324-72.5	c 72	N84-28575 *	US-PATENT-CLASS-325-323	c 32	N77-10392 *
US-PATENT-CLASS-324-240	c 35	N86-32698 *	US-PATENT-CLASS-324-72	c 10	N71-19421 *	US-PATENT-CLASS-325-325	c 07	N71-24613 *
US-PATENT-CLASS-324-249	c 35	N78-32397 *	US-PATENT-CLASS-324-72	c 14	N71-23699 *	US-PATENT-CLASS-325-325	c 07	N72-25173 *
US-PATENT-CLASS-324-250	c 35	N84-12444 *	US-PATENT-CLASS-324-72	c 07	N73-20175 *	US-PATENT-CLASS-325-325	c 07	N73-13149 *
US-PATENT-CLASS-324-262	c 35	N84-22928 *	US-PATENT-CLASS-324-72	c 14	N73-32318 *	US-PATENT-CLASS-325-346	c 10	N73-16205 *
US-PATENT-CLASS-324-262	c 35	N86-32698 *	US-PATENT-CLASS-324-72	c 33	N74-27862 *	US-PATENT-CLASS-325-346	c 32	N74-30523 *
US-PATENT-CLASS-324-29.5	c 03	N72-25020 *	US-PATENT-CLASS-324-72	c 33	N75-26246 *	US-PATENT-CLASS-325-346	c 32	N77-24331 *
US-PATENT-CLASS-324-29.5	c 14	N73-30388 *	US-PATENT-CLASS-324-72	c 33	N77-10429 *	US-PATENT-CLASS-325-347	c 07	N71-33696 *
US-PATENT-CLASS-324-29.5	c 44	N74-27519 *	US-PATENT-CLASS-324-72	c 33	N79-10337 *	US-PATENT-CLASS-325-348	c 07	N71-33696 *
US-PATENT-CLASS-324-30B	c 33	N76-19339 *	US-PATENT-CLASS-324-72	c 33	N79-14305 *	US-PATENT-CLASS-325-349	c 32	N77-10392 *
US-PATENT-CLASS-324-30R	c 14	N73-20478 *	US-PATENT-CLASS-324-72	c 47	N82-24779 *	US-PATENT-CLASS-325-363	c 07	N71-11267 *
US-PATENT-CLASS-324-32	c 14	N71-16014 *	US-PATENT-CLASS-324-73AT	c 08	N72-22166 *	US-PATENT-CLASS-325-363	c 14	N71-26774 *
US-PATENT-CLASS-324-32	c 33	N75-18477 *	US-PATENT-CLASS-324-73AT	c 33	N81-26359 *	US-PATENT-CLASS-325-363	c 14	N72-28437 *
US-PATENT-CLASS-324-32	c 33	N75-19522 *	US-PATENT-CLASS-324-73R	c 33	N83-18996 *	US-PATENT-CLASS-325-363	c 10	N73-25241 *
US-PATENT-CLASS-324-32	c 35	N78-28411 *	US-PATENT-CLASS-324-73	c 14	N71-28991 *	US-PATENT-CLASS-325-363	c 35	N80-18359 *
US-PATENT-CLASS-324-33	c 25	N69-39884 *	US-PATENT-CLASS-324-74	c 35	N78-28411 *	US-PATENT-CLASS-325-369	c 07	N71-27056 *
US-PATENT-CLASS-324-33	c 14	N70-35666 *	US-PATENT-CLASS-324-77B	c 60	N75-13539 *	US-PATENT-CLASS-325-372	c 32	N76-14321 *
US-PATENT-CLASS-324-33	c 24	N71-20518 *	US-PATENT-CLASS-324-77B	c 32	N79-10262 *	US-PATENT-CLASS-325-373	c 07	N72-33146 *
US-PATENT-CLASS-324-33	c 14	N71-21090 *	US-PATENT-CLASS-324-77C	c 32	N79-10262 *	US-PATENT-CLASS-325-38B	c 35	N74-17885 *

US-PATENT-CLASS-325-38	c 07	N72-20140 *	US-PATENT-CLASS-328-134	c 33	N81-17349 *	US-PATENT-CLASS-329-120	c 07	N73-30113 *
US-PATENT-CLASS-325-38	c 07	N72-25173 *	US-PATENT-CLASS-328-136	c 09	N72-25257 *	US-PATENT-CLASS-329-122	c 10	N71-19469 *
US-PATENT-CLASS-325-39	c 07	N72-11149 *	US-PATENT-CLASS-328-140	c 09	N72-25257 *	US-PATENT-CLASS-329-122	c 07	N73-28012 *
US-PATENT-CLASS-325-40	c 07	N73-26118 *	US-PATENT-CLASS-328-142	c 09	N72-21245 *	US-PATENT-CLASS-329-122	c 33	N74-12887 *
US-PATENT-CLASS-325-419	c 10	N73-16205 *	US-PATENT-CLASS-328-145	c 32	N76-14321 *	US-PATENT-CLASS-329-122	c 32	N74-20811 *
US-PATENT-CLASS-325-419	c 07	N73-28012 *	US-PATENT-CLASS-328-145	c 09	N72-23173 *	US-PATENT-CLASS-329-122	c 33	N77-14334 *
US-PATENT-CLASS-325-419	c 32	N74-20810 *	US-PATENT-CLASS-328-145	c 33	N78-32339 *	US-PATENT-CLASS-329-122	c 32	N77-24331 *
US-PATENT-CLASS-325-419	c 32	N74-20811 *	US-PATENT-CLASS-328-147	c 33	N87-21235 *	US-PATENT-CLASS-329-122	c 32	N79-14267 *
US-PATENT-CLASS-325-419	c 32	N80-18253 *	US-PATENT-CLASS-328-150	c 33	N78-18308 *	US-PATENT-CLASS-329-122	c 33	N81-33405 *
US-PATENT-CLASS-325-41	c 10	N71-26577 *	US-PATENT-CLASS-328-151	c 09	N72-22200 *	US-PATENT-CLASS-329-124	c 33	N77-14334 *
US-PATENT-CLASS-325-41	c 32	N77-12240 *	US-PATENT-CLASS-328-151	c 33	N75-18479 *	US-PATENT-CLASS-329-124	c 33	N78-32338 *
US-PATENT-CLASS-325-41	c 32	N79-10263 *	US-PATENT-CLASS-328-151	c 33	N81-27396 *	US-PATENT-CLASS-329-124	c 32	N84-27952 *
US-PATENT-CLASS-325-420	c 07	N73-30113 *	US-PATENT-CLASS-328-154	c 08	N72-22162 *	US-PATENT-CLASS-329-126	c 33	N74-12887 *
US-PATENT-CLASS-325-422	c 07	N73-30113 *	US-PATENT-CLASS-328-154	c 10	N73-13235 *	US-PATENT-CLASS-329-140	c 07	N71-24583 *
US-PATENT-CLASS-325-423	c 32	N74-20809 *	US-PATENT-CLASS-328-154	c 33	N74-22814 *	US-PATENT-CLASS-329-145	c 07	N71-33696 *
US-PATENT-CLASS-325-42	c 07	N71-11266 *	US-PATENT-CLASS-328-155	c 10	N72-16172 *	US-PATENT-CLASS-329-161	c 07	N72-20141 *
US-PATENT-CLASS-325-42	c 32	N76-21366 *	US-PATENT-CLASS-328-155	c 09	N72-33204 *	US-PATENT-CLASS-329-162	c 07	N72-20141 *
US-PATENT-CLASS-325-42	c 32	N77-30308 *	US-PATENT-CLASS-328-155	c 33	N74-17927 *	US-PATENT-CLASS-329-166	c 33	N75-19520 *
US-PATENT-CLASS-325-445	c 07	N72-20141 *	US-PATENT-CLASS-328-155	c 17	N76-22245 *	US-PATENT-CLASS-329-166	c 33	N75-25041 *
US-PATENT-CLASS-325-446	c 09	N69-24324 *	US-PATENT-CLASS-328-160	c 32	N74-19788 *	US-PATENT-CLASS-329-204	c 33	N75-19520 *
US-PATENT-CLASS-325-45	c 07	N73-25160 *	US-PATENT-CLASS-328-161	c 33	N77-17354 *	US-PATENT-CLASS-329-204	c 33	N75-25041 *
US-PATENT-CLASS-325-473	c 07	N71-33696 *	US-PATENT-CLASS-328-163	c 33	N79-10338 *	US-PATENT-CLASS-329-205	c 33	N77-21314 *
US-PATENT-CLASS-325-473	c 10	N73-12244 *	US-PATENT-CLASS-328-164	c 07	N71-33696 *	US-PATENT-CLASS-329-50	c 33	N74-17930 *
US-PATENT-CLASS-325-473	c 32	N77-30308 *	US-PATENT-CLASS-328-164	c 33	N87-21235 *	US-PATENT-CLASS-329-50	c 35	N81-19423 *
US-PATENT-CLASS-325-476	c 32	N77-10392 *	US-PATENT-CLASS-328-165	c 09	N71-24806 *	US-PATENT-CLASS-33.8UB	c 27	N81-15104 *
US-PATENT-CLASS-325-478	c 07	N71-33696 *	US-PATENT-CLASS-328-165	c 07	N71-33696 *	US-PATENT-CLASS-33.DIG.13	c 35	N75-12273 *
US-PATENT-CLASS-325-480	c 07	N71-33696 *	US-PATENT-CLASS-328-166	c 10	N72-20223 *	US-PATENT-CLASS-33.DIG.3	c 04	N84-14132 *
US-PATENT-CLASS-325-480	c 10	N73-12244 *	US-PATENT-CLASS-328-166	c 33	N82-29539 *	US-PATENT-CLASS-33-1G	c 37	N78-21554 *
US-PATENT-CLASS-325-482	c 07	N71-33696 *	US-PATENT-CLASS-328-167	c 10	N71-22986 *	US-PATENT-CLASS-33-1M	c 35	N74-32877 *
US-PATENT-CLASS-325-492	c 09	N72-17153 *	US-PATENT-CLASS-328-167	c 08	N71-29034 *	US-PATENT-CLASS-33-1N	c 43	N79-26439 *
US-PATENT-CLASS-325-492	c 09	N72-22202 *	US-PATENT-CLASS-328-167	c 10	N72-17171 *	US-PATENT-CLASS-33-1Q	c 43	N79-26439 *
US-PATENT-CLASS-325-4	c 07	N71-16088 *	US-PATENT-CLASS-328-167	c 09	N72-21245 *	US-PATENT-CLASS-33-1SA	c 14	N72-28436 *
US-PATENT-CLASS-325-4	c 07	N71-19773 *	US-PATENT-CLASS-328-167	c 09	N73-20231 *	US-PATENT-CLASS-33-15A	c 19	N74-21015 *
US-PATENT-CLASS-325-4	c 07	N71-24621 *	US-PATENT-CLASS-328-167	c 08	N73-26175 *	US-PATENT-CLASS-33-125R	c 52	N80-27072 *
US-PATENT-CLASS-325-4	c 07	N72-11149 *	US-PATENT-CLASS-328-167	c 33	N82-24417 *	US-PATENT-CLASS-33-125	c 14	N72-11364 *
US-PATENT-CLASS-325-4	c 07	N72-12080 *	US-PATENT-CLASS-328-167	c 33	N85-29145 *	US-PATENT-CLASS-33-143C	c 52	N82-22875 *
US-PATENT-CLASS-325-4	c 07	N72-20140 *	US-PATENT-CLASS-328-168	c 32	N74-19788 *	US-PATENT-CLASS-33-147	c 15	N71-19489 *
US-PATENT-CLASS-325-4	c 07	N72-25171 *	US-PATENT-CLASS-328-16	c 10	N72-20223 *	US-PATENT-CLASS-33-148D	c 35	N75-19615 *
US-PATENT-CLASS-325-4	c 07	N73-20174 *	US-PATENT-CLASS-328-171	c 10	N71-24844 *	US-PATENT-CLASS-33-149	c 14	N71-17657 *
US-PATENT-CLASS-325-4	c 15	N75-13007 *	US-PATENT-CLASS-328-172	c 32	N74-19788 *	US-PATENT-CLASS-33-15A	c 08	N72-11172 *
US-PATENT-CLASS-325-4	c 32	N75-26195 *	US-PATENT-CLASS-328-172	c 33	N78-17294 *	US-PATENT-CLASS-33-155R	c 33	N76-19338 *
US-PATENT-CLASS-325-4	c 32	N77-20289 *	US-PATENT-CLASS-328-186	c 09	N72-17157 *	US-PATENT-CLASS-33-169F	c 35	N84-28018 *
US-PATENT-CLASS-325-4	c 32	N79-11265 *	US-PATENT-CLASS-328-187	c 10	N73-20254 *	US-PATENT-CLASS-33-174B	c 37	N72-21554 *
US-PATENT-CLASS-325-4	c 32	N80-20448 *	US-PATENT-CLASS-328-189	c 14	N72-27408 *	US-PATENT-CLASS-33-174D	c 33	N76-19338 *
US-PATENT-CLASS-325-51	c 07	N72-25173 *	US-PATENT-CLASS-328-190	c 33	N76-14371 *	US-PATENT-CLASS-33-174L	c 43	N79-26449 *
US-PATENT-CLASS-325-55	c 07	N72-25173 *	US-PATENT-CLASS-328-192	c 60	N81-15706 *	US-PATENT-CLASS-33-174S	c 14	N72-22445 *
US-PATENT-CLASS-325-58	c 07	N72-11149 *	US-PATENT-CLASS-328-1	c 23	N71-16099 *	US-PATENT-CLASS-33-174	c 14	N69-21363 *
US-PATENT-CLASS-325-58	c 07	N72-20140 *	US-PATENT-CLASS-328-1	c 10	N71-19472 *	US-PATENT-CLASS-33-174	c 14	N71-17658 *
US-PATENT-CLASS-325-58	c 07	N72-25173 *	US-PATENT-CLASS-328-1	c 09	N72-22200 *	US-PATENT-CLASS-33-174	c 14	N71-24693 *
US-PATENT-CLASS-325-58	c 32	N78-15323 *	US-PATENT-CLASS-328-207	c 09	N71-28468 *	US-PATENT-CLASS-33-180R	c 35	N75-12273 *
US-PATENT-CLASS-325-58	c 32	N79-20296 *	US-PATENT-CLASS-328-207	c 10	N71-28860 *	US-PATENT-CLASS-33-189	c 15	N71-26145 *
US-PATENT-CLASS-325-5	c 07	N73-20174 *	US-PATENT-CLASS-328-207	c 09	N71-29139 *	US-PATENT-CLASS-33-1	c 14	N70-36907 *
US-PATENT-CLASS-325-60	c 08	N71-19763 *	US-PATENT-CLASS-328-207	c 10	N72-20212 *	US-PATENT-CLASS-33-204C	c 08	N72-11172 *
US-PATENT-CLASS-325-60	c 07	N73-16121 *	US-PATENT-CLASS-328-20	c 10	N72-20223 *	US-PATENT-CLASS-33-207	c 15	N71-15571 *
US-PATENT-CLASS-325-60	c 32	N75-24981 *	US-PATENT-CLASS-328-230	c 35	N84-12444 *	US-PATENT-CLASS-33-23R	c 35	N74-32877 *
US-PATENT-CLASS-325-61	c 07	N73-25160 *	US-PATENT-CLASS-328-233	c 10	N71-22962 *	US-PATENT-CLASS-33-268	c 89	N74-30886 *
US-PATENT-CLASS-325-62	c 08	N72-25208 *	US-PATENT-CLASS-328-233	c 75	N75-13625 *	US-PATENT-CLASS-33-285	c 36	N74-21091 *
US-PATENT-CLASS-325-62	c 44	N74-19870 *	US-PATENT-CLASS-328-233	c 37	N78-17386 *	US-PATENT-CLASS-33-286	c 18	N76-14186 *
US-PATENT-CLASS-325-63	c 10	N71-19467 *	US-PATENT-CLASS-328-24	c 09	N72-33204 *	US-PATENT-CLASS-33-293	c 35	N84-16523 *
US-PATENT-CLASS-325-63	c 07	N73-20174 *	US-PATENT-CLASS-328-28	c 33	N87-21235 *	US-PATENT-CLASS-33-31	c 14	N71-21079 *
US-PATENT-CLASS-325-63	c 32	N78-15323 *	US-PATENT-CLASS-328-37	c 08	N71-12503 *	US-PATENT-CLASS-33-322	c 06	N83-33882 *
US-PATENT-CLASS-325-63	c 32	N79-20296 *	US-PATENT-CLASS-328-37	c 10	N73-20254 *	US-PATENT-CLASS-33-348	c 04	N84-14132 *
US-PATENT-CLASS-325-64	c 07	N72-25173 *	US-PATENT-CLASS-328-37	c 33	N76-14373 *	US-PATENT-CLASS-33-356	c 04	N76-20114 *
US-PATENT-CLASS-325-65	c 07	N70-41331 *	US-PATENT-CLASS-328-37	c 33	N81-17349 *	US-PATENT-CLASS-33-356	c 04	N77-19056 *
US-PATENT-CLASS-325-65	c 07	N70-41372 *	US-PATENT-CLASS-328-38	c 10	N72-20223 *	US-PATENT-CLASS-33-356	c 04	N84-14132 *
US-PATENT-CLASS-325-65	c 07	N71-11284 *	US-PATENT-CLASS-328-38	c 33	N77-24375 *	US-PATENT-CLASS-33-361	c 04	N84-14132 *
US-PATENT-CLASS-325-65	c 32	N77-30308 *	US-PATENT-CLASS-328-39	c 33	N77-24375 *	US-PATENT-CLASS-33-366	c 35	N78-32395 *
US-PATENT-CLASS-325-66	c 17	N78-17140 *	US-PATENT-CLASS-328-48	c 33	N77-24375 *	US-PATENT-CLASS-33-46R	c 19	N74-21015 *
US-PATENT-CLASS-325-67	c 07	N71-26292 *	US-PATENT-CLASS-328-41	c 33	N75-31330 *	US-PATENT-CLASS-33-72	c 15	N72-11386 *
US-PATENT-CLASS-325-67	c 10	N73-25241 *	US-PATENT-CLASS-328-42	c 08	N71-19432 *	US-PATENT-CLASS-33-75R	c 14	N72-28436 *
US-PATENT-CLASS-325-67	c 35	N75-21582 *	US-PATENT-CLASS-328-44	c 08	N71-29034 *	US-PATENT-CLASS-33-96	c 33	N75-30430 *
US-PATENT-CLASS-325-67	c 32	N79-11265 *	US-PATENT-CLASS-328-48	c 14	N73-30386 *	US-PATENT-CLASS-330-103	c 32	N74-22096 *
US-PATENT-CLASS-325-7	c 07	N73-20174 *	US-PATENT-CLASS-328-48	c 33	N74-10223 *	US-PATENT-CLASS-330-107	c 10	N72-11256 *
US-PATENT-CLASS-325-8	c 07	N73-20174 *	US-PATENT-CLASS-328-48	c 60	N81-15706 *	US-PATENT-CLASS-330-107	c 10	N72-17172 *
US-PATENT-CLASS-325-8	c 32	N80-20448 *	US-PATENT-CLASS-328-49	c 10	N71-27137 *	US-PATENT-CLASS-330-107	c 33	N84-14421 *
US-PATENT-CLASS-325-9	c 07	N73-20174 *	US-PATENT-CLASS-328-55	c 33	N81-17349 *	US-PATENT-CLASS-330-107	c 33	N87-22895 *
US-PATENT-CLASS-325-9	c 32	N80-20448 *	US-PATENT-CLASS-328-58	c 08	N71-29138 *	US-PATENT-CLASS-330-109	c 10	N71-11256 *
US-PATENT-CLASS-328-104	c 08	N72-22162 *	US-PATENT-CLASS-328-58	c 33	N74-32711 *	US-PATENT-CLASS-330-109	c 10	N72-17171 *
US-PATENT-CLASS-328-106	c 10	N73-13235 *	US-PATENT-CLASS-328-58	c 33	N75-18479 *	US-PATENT-CLASS-330-109	c 10	N72-17172 *
US-PATENT-CLASS-328-110	c 09	N72-22201 *	US-PATENT-CLASS-328-59	c 33	N75-19515 *	US-PATENT-CLASS-330-109	c 09	N73-20231 *
US-PATENT-CLASS-328-110	c 09	N71-12519 *	US-PATENT-CLASS-328-61	c 09	N71-23525 *	US-PATENT-CLASS-330-109	c 33	N82-24417 *
US-PATENT-CLASS-328-111	c 60	N77-12721 *	US-PATENT-CLASS-328-61	c 10	N73-20254 *	US-PATENT-CLASS-330-109	c 33	N84-14421 *
US-PATENT-CLASS-328-115	c 33	N75-18479 *	US-PATENT-CLASS-328-61	c 35	N75-30504 *	US-PATENT-CLASS-330-109	c 33	N84-22887 *
US-PATENT-CLASS-328-116	c 09	N69-39885 *	US-PATENT-CLASS-328-62	c 35	N75-30504 *	US-PATENT-CLASS-330-10	c 33	N74-14939 *
US-PATENT-CLASS-328-120	c 09	N71-27016 *	US-PATENT-CLASS-328-63	c 33	N76-14371 *	US-PATENT-CLASS-330-110	c 33	N83-36356 *
US-PATENT-CLASS-328-123	c 60	N74-12888 *	US-PATENT-CLASS-328-63	c 33	N77-24375 *	US-PATENT-CLASS-330-11	c 09	N71-13531 *
US-PATENT-CLASS-328-129	c 14	N73-30386 *	US-PATENT-CLASS-328-67	c 10	N71-28960 *	US-PATENT-CLASS-330-11	c 10	N71-33129 *
US-PATENT-CLASS-328-133	c 09	N71-24596 *	US-PATENT-CLASS-328-67	c 33	N82-24418 *	US-PATENT-CLASS-330-11	c 09	N72-17156 *
US-PATENT-CLASS-328-133	c 10	N72-20224 *	US-PATENT-CLASS-328-71	c 60	N81-15706 *	US-PATENT-CLASS-330-124	c 07	N71-28430 *
US-PATENT-CLASS-328-133	c 33	N75-26243 *	US-PATENT-CLASS-328-92	c 10	N71-28860 *	US-PATENT-CLASS-330-12	c 10	N72-33230 *
US-PATENT-CLASS-328-133	c 33	N77-13315 *	US-PATENT-CLASS-329-104	c 07	N71-11282 *	US-PATENT-CLASS-330-13	c 10	N71-26415 *
US-PATENT-CLASS-328-133	c 33	N79-11313 *	US-PATENT-CLASS-329-104	c 33	N74-12887 *	US-PATENT-CLASS-330-13	c 33	N75-30428 *
US-PATENT-CLASS-328-133	c 33	N84-16454 *	US-PATENT-CLASS-329-104	c 32	N77-24331 *	US-PATENT-CLASS-330-14	c 08	N70-35440 *
US-PATENT-CLASS-328-134	c 08	N71-18692 *	US-PATENT-CLASS-329-107	c 35	N81-19437 *	US-PATENT-CLASS-330-14	c 33	N77-14335 *
US-PATENT-CLASS-328-134	c 14	N73-30386 *	US-PATENT-CLASS-329-107	c 32	N87-21207 *	US-PATENT-CLASS-330-16	c 10	N71-33129 *
US-PATENT-CLASS-328-134	c 33	N76-16331 *	US-PATENT-CLASS-329-119	c 33	N77-21314 *	US-PATENT-CLASS-330-176	c 10	N72-17171 *

US-PATENT-CLASS-330-18	c 09	N72-17155 *	US-PATENT-CLASS-331-1-A	c 33	N86-20668 *	US-PATENT-CLASS-331-94.5C	c 36	N76-29575 *
US-PATENT-CLASS-330-18	c 33	N75-30428 *	US-PATENT-CLASS-331-1A	c 33	N74-10194 *	US-PATENT-CLASS-331-94.5C	c 36	N80-14384 *
US-PATENT-CLASS-330-200	c 07	N71-28430 *	US-PATENT-CLASS-331-1A	c 33	N75-25040 *	US-PATENT-CLASS-331-94.5C	c 36	N82-13415 *
US-PATENT-CLASS-330-207A	c 33	N75-30429 *	US-PATENT-CLASS-331-1A	c 33	N79-11313 *	US-PATENT-CLASS-331-94.5D	c 33	N74-20859 *
US-PATENT-CLASS-330-20	c 09	N73-20232 *	US-PATENT-CLASS-331-107A	c 71	N77-26919 *	US-PATENT-CLASS-331-94.5D	c 36	N77-19416 *
US-PATENT-CLASS-330-22	c 09	N71-10798 *	US-PATENT-CLASS-331-107G	c 26	N72-25679 *	US-PATENT-CLASS-331-94.5D	c 36	N77-25502 *
US-PATENT-CLASS-330-22	c 09	N73-20232 *	US-PATENT-CLASS-331-107G	c 09	N73-15235 *	US-PATENT-CLASS-331-94.5D	c 35	N77-27366 *
US-PATENT-CLASS-330-24	c 10	N71-33129 *	US-PATENT-CLASS-331-107	c 09	N71-18721 *	US-PATENT-CLASS-331-94.5D	c 36	N82-13415 *
US-PATENT-CLASS-330-24	c 33	N75-30429 *	US-PATENT-CLASS-331-107	c 26	N72-21701 *	US-PATENT-CLASS-331-94.5G	c 36	N75-31426 *
US-PATENT-CLASS-330-258	c 33	N86-20670 *	US-PATENT-CLASS-331-108A	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5G	c 36	N77-19416 *
US-PATENT-CLASS-330-261	c 33	N86-20670 *	US-PATENT-CLASS-331-108D	c 33	N86-32624 *	US-PATENT-CLASS-331-94.5G	c 36	N78-17366 *
US-PATENT-CLASS-330-26	c 10	N72-17172 *	US-PATENT-CLASS-331-109	c 10	N71-27271 *	US-PATENT-CLASS-331-94.5G	c 36	N78-27402 *
US-PATENT-CLASS-330-27R	c 10	N72-31273 *	US-PATENT-CLASS-331-109	c 33	N74-26732 *	US-PATENT-CLASS-331-94.5G	c 36	N79-18307 *
US-PATENT-CLASS-330-277	c 33	N84-22887 *	US-PATENT-CLASS-331-11	c 07	N72-11150 *	US-PATENT-CLASS-331-94.5G	c 33	N82-24418 *
US-PATENT-CLASS-330-282	c 33	N83-36356 *	US-PATENT-CLASS-331-111	c 10	N71-23669 *	US-PATENT-CLASS-331-94.5K	c 36	N74-15145 *
US-PATENT-CLASS-330-289	c 33	N83-34191 *	US-PATENT-CLASS-331-111	c 09	N72-21247 *	US-PATENT-CLASS-331-94.5L	c 72	N79-13826 *
US-PATENT-CLASS-330-289	c 33	N84-16454 *	US-PATENT-CLASS-331-113A	c 09	N72-25253 *	US-PATENT-CLASS-331-94.5M	c 36	N75-19654 *
US-PATENT-CLASS-330-28	c 33	N74-21851 *	US-PATENT-CLASS-331-113A	c 09	N72-25254 *	US-PATENT-CLASS-331-94.5PE	c 36	N75-32441 *
US-PATENT-CLASS-330-28	c 33	N77-14335 *	US-PATENT-CLASS-331-113A	c 33	N74-11049 *	US-PATENT-CLASS-331-94.5PE	c 36	N77-19416 *
US-PATENT-CLASS-330-290	c 33	N82-24417 *	US-PATENT-CLASS-331-113R	c 33	N82-18494 *	US-PATENT-CLASS-331-94.5PE	c 36	N78-27402 *
US-PATENT-CLASS-330-294	c 33	N82-24417 *	US-PATENT-CLASS-331-113	c 09	N70-38995 *	US-PATENT-CLASS-331-94.5PE	c 72	N79-13826 *
US-PATENT-CLASS-330-294	c 33	N84-22887 *	US-PATENT-CLASS-331-113	c 10	N71-19418 *	US-PATENT-CLASS-331-94.5PE	c 33	N82-24418 *
US-PATENT-CLASS-330-294	c 33	N87-22895 *	US-PATENT-CLASS-331-113	c 09	N71-19470 *	US-PATENT-CLASS-331-94.5P	c 36	N75-19655 *
US-PATENT-CLASS-330-29	c 09	N69-24330 *	US-PATENT-CLASS-331-113	c 10	N71-25882 *	US-PATENT-CLASS-331-94.5P	c 36	N75-31426 *
US-PATENT-CLASS-330-29	c 10	N72-28241 *	US-PATENT-CLASS-331-113	c 10	N71-25950 *	US-PATENT-CLASS-331-94.5P	c 36	N77-25502 *
US-PATENT-CLASS-330-2	c 09	N69-39986 *	US-PATENT-CLASS-331-113	c 09	N71-28810 *	US-PATENT-CLASS-331-94.5P	c 36	N78-27402 *
US-PATENT-CLASS-330-2	c 09	N72-25250 *	US-PATENT-CLASS-331-114	c 33	N77-17351 *	US-PATENT-CLASS-331-94.5P	c 72	N79-13826 *
US-PATENT-CLASS-330-2	c 33	N78-10375 *	US-PATENT-CLASS-331-115	c 10	N72-33230 *	US-PATENT-CLASS-331-94.5P	c 36	N79-18307 *
US-PATENT-CLASS-330-2	c 33	N79-22373 *	US-PATENT-CLASS-331-115	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5P	c 36	N80-14384 *
US-PATENT-CLASS-330-30D	c 10	N72-20221 *	US-PATENT-CLASS-331-116FE	c 33	N86-19515 *	US-PATENT-CLASS-331-94.5P	c 36	N82-13415 *
US-PATENT-CLASS-330-30D	c 09	N73-20232 *	US-PATENT-CLASS-331-116R	c 33	N87-21232 *	US-PATENT-CLASS-331-94.5S	c 36	N74-15145 *
US-PATENT-CLASS-330-302	c 33	N85-29145 *	US-PATENT-CLASS-331-116R	c 10	N72-33230 *	US-PATENT-CLASS-331-94.5S	c 36	N77-25499 *
US-PATENT-CLASS-330-306	c 33	N82-24417 *	US-PATENT-CLASS-331-116R	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5T	c 35	N77-27366 *
US-PATENT-CLASS-330-306	c 33	N85-29145 *	US-PATENT-CLASS-331-116R	c 33	N86-32624 *	US-PATENT-CLASS-331-94.5T	c 36	N78-17366 *
US-PATENT-CLASS-330-30	c 09	N71-19466 *	US-PATENT-CLASS-331-117FE	c 33	N86-19515 *	US-PATENT-CLASS-331-94.5	c 16	N71-18614 *
US-PATENT-CLASS-330-30	c 09	N71-19516 *	US-PATENT-CLASS-331-117R	c 33	N87-21232 *	US-PATENT-CLASS-331-94.5	c 16	N71-24832 *
US-PATENT-CLASS-330-30	c 09	N71-27016 *	US-PATENT-CLASS-331-117R	c 33	N74-26732 *	US-PATENT-CLASS-331-94.5	c 23	N71-26722 *
US-PATENT-CLASS-330-310	c 33	N83-34191 *	US-PATENT-CLASS-331-117	c 10	N71-27271 *	US-PATENT-CLASS-331-94.5	c 15	N71-27135 *
US-PATENT-CLASS-330-311	c 33	N86-20670 *	US-PATENT-CLASS-331-117	c 09	N72-22203 *	US-PATENT-CLASS-331-94.5	c 23	N71-29125 *
US-PATENT-CLASS-330-31	c 10	N71-26331 *	US-PATENT-CLASS-331-12	c 33	N78-32338 *	US-PATENT-CLASS-331-94.5	c 16	N71-33410 *
US-PATENT-CLASS-330-31	c 10	N72-17172 *	US-PATENT-CLASS-331-135	c 10	N73-32145 *	US-PATENT-CLASS-331-94.5	c 16	N72-12440 *
US-PATENT-CLASS-330-35	c 09	N72-17156 *	US-PATENT-CLASS-331-14	c 09	N72-21247 *	US-PATENT-CLASS-331-94.5	c 25	N72-24753 *
US-PATENT-CLASS-330-35	c 09	N73-20232 *	US-PATENT-CLASS-331-14	c 33	N74-10194 *	US-PATENT-CLASS-331-94.5	c 16	N72-25485 *
US-PATENT-CLASS-330-35	c 33	N74-14939 *	US-PATENT-CLASS-331-14	c 33	N79-11313 *	US-PATENT-CLASS-331-94.5	c 07	N73-26119 *
US-PATENT-CLASS-330-4.3	c 16	N73-32391 *	US-PATENT-CLASS-331-159	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5	c 09	N73-32111 *
US-PATENT-CLASS-330-4.3	c 36	N75-19655 *	US-PATENT-CLASS-331-177R	c 33	N87-22895 *	US-PATENT-CLASS-331-94.5	c 16	N73-32391 *
US-PATENT-CLASS-330-4.3	c 36	N75-27364 *	US-PATENT-CLASS-331-177R	c 09	N73-15235 *	US-PATENT-CLASS-331-94.5	c 36	N76-18427 *
US-PATENT-CLASS-330-4.3	c 36	N75-32441 *	US-PATENT-CLASS-331-177V	c 33	N77-17351 *	US-PATENT-CLASS-331-94.5G	c 36	N75-32441 *
US-PATENT-CLASS-330-4.3	c 36	N76-29575 *	US-PATENT-CLASS-331-177	c 10	N71-27271 *	US-PATENT-CLASS-331-94	c 16	N70-41578 *
US-PATENT-CLASS-330-4.3	c 36	N77-25502 *	US-PATENT-CLASS-331-178	c 33	N74-10194 *	US-PATENT-CLASS-331-94	c 16	N72-28521 *
US-PATENT-CLASS-330-4.3	c 73	N78-19920 *	US-PATENT-CLASS-331-17	c 10	N71-20852 *	US-PATENT-CLASS-331-94	c 16	N73-13489 *
US-PATENT-CLASS-330-4.3	c 36	N82-28616 *	US-PATENT-CLASS-331-17	c 10	N73-27171 *	US-PATENT-CLASS-331-94	c 35	N76-15436 *
US-PATENT-CLASS-330-4.5	c 09	N72-25258 *	US-PATENT-CLASS-331-17	c 33	N74-10194 *	US-PATENT-CLASS-331-94	c 36	N76-31512 *
US-PATENT-CLASS-330-4.9	c 33	N74-32660 *	US-PATENT-CLASS-331-183	c 33	N74-26732 *	US-PATENT-CLASS-331-94	c 36	N79-14362 *
US-PATENT-CLASS-330-40	c 07	N71-28430 *	US-PATENT-CLASS-331-18	c 10	N71-26374 *	US-PATENT-CLASS-331-94	c 36	N80-18372 *
US-PATENT-CLASS-330-40	c 09	N72-17155 *	US-PATENT-CLASS-331-18	c 33	N74-10194 *	US-PATENT-CLASS-331-96	c 33	N85-29143 *
US-PATENT-CLASS-330-40	c 09	N73-20232 *	US-PATENT-CLASS-331-18	c 33	N75-25040 *	US-PATENT-CLASS-332-10	c 08	N71-29138 *
US-PATENT-CLASS-330-40	c 33	N75-30428 *	US-PATENT-CLASS-331-23	c 09	N72-21247 *	US-PATENT-CLASS-332-11D	c 35	N74-17885 *
US-PATENT-CLASS-330-43	c 33	N79-10339 *	US-PATENT-CLASS-331-23	c 33	N77-14334 *	US-PATENT-CLASS-332-16	c 33	N77-21314 *
US-PATENT-CLASS-330-43	c 33	N82-26568 *	US-PATENT-CLASS-331-23	c 33	N79-11313 *	US-PATENT-CLASS-332-18	c 33	N77-17351 *
US-PATENT-CLASS-330-43	c 33	N86-21742 *	US-PATENT-CLASS-331-25	c 10	N73-27171 *	US-PATENT-CLASS-332-19	c 10	N71-23544 *
US-PATENT-CLASS-330-49	c 14	N70-35220 *	US-PATENT-CLASS-331-25	c 33	N75-25040 *	US-PATENT-CLASS-332-1	c 10	N71-23084 *
US-PATENT-CLASS-330-4	c 16	N71-15550 *	US-PATENT-CLASS-331-27	c 33	N79-11313 *	US-PATENT-CLASS-332-21	c 08	N72-25208 *
US-PATENT-CLASS-330-4	c 16	N71-24831 *	US-PATENT-CLASS-331-2	c 33	N86-20668 *	US-PATENT-CLASS-332-22	c 32	N77-14292 *
US-PATENT-CLASS-330-4	c 16	N72-28521 *	US-PATENT-CLASS-331-30	c 09	N72-21247 *	US-PATENT-CLASS-332-22	c 33	N81-15192 *
US-PATENT-CLASS-330-4	c 36	N75-15029 *	US-PATENT-CLASS-331-31	c 33	N85-29143 *	US-PATENT-CLASS-332-23A	c 32	N87-25511 *
US-PATENT-CLASS-330-4	c 36	N76-31512 *	US-PATENT-CLASS-331-34	c 07	N72-11150 *	US-PATENT-CLASS-332-23R	c 32	N77-14292 *
US-PATENT-CLASS-330-4	c 36	N78-18410 *	US-PATENT-CLASS-331-36C	c 33	N77-14334 *	US-PATENT-CLASS-332-23R	c 33	N81-15192 *
US-PATENT-CLASS-330-4	c 36	N80-18372 *	US-PATENT-CLASS-331-36C	c 33	N85-29143 *	US-PATENT-CLASS-332-29	c 07	N71-28429 *
US-PATENT-CLASS-330-4	c 36	N83-35350 *	US-PATENT-CLASS-331-3	c 35	N76-15436 *	US-PATENT-CLASS-332-2	c 35	N75-19614 *
US-PATENT-CLASS-330-5.5	c 71	N77-26919 *	US-PATENT-CLASS-331-3	c 33	N85-29143 *	US-PATENT-CLASS-332-30V	c 33	N77-14334 *
US-PATENT-CLASS-330-51	c 10	N71-28859 *	US-PATENT-CLASS-331-44	c 14	N72-27408 *	US-PATENT-CLASS-332-30V	c 33	N77-17351 *
US-PATENT-CLASS-330-51	c 33	N79-22373 *	US-PATENT-CLASS-331-45	c 10	N73-16206 *	US-PATENT-CLASS-332-30	c 10	N71-27271 *
US-PATENT-CLASS-330-52	c 71	N78-14867 *	US-PATENT-CLASS-331-48	c 33	N81-17349 *	US-PATENT-CLASS-332-30	c 07	N71-28429 *
US-PATENT-CLASS-330-53	c 33	N74-32660 *	US-PATENT-CLASS-331-4	c 09	N69-21543 *	US-PATENT-CLASS-332-30	c 33	N77-21314 *
US-PATENT-CLASS-330-59	c 09	N72-25250 *	US-PATENT-CLASS-331-4	c 33	N74-10194 *	US-PATENT-CLASS-332-31	c 08	N71-12500 *
US-PATENT-CLASS-330-59	c 33	N74-21851 *	US-PATENT-CLASS-331-4	c 33	N78-32338 *	US-PATENT-CLASS-332-31	c 26	N72-21701 *
US-PATENT-CLASS-330-59	c 33	N77-14335 *	US-PATENT-CLASS-331-56	c 33	N87-21232 *	US-PATENT-CLASS-332-47	c 33	N75-19520 *
US-PATENT-CLASS-330-5	c 33	N75-27251 *	US-PATENT-CLASS-331-62	c 33	N74-11049 *	US-PATENT-CLASS-332-51W	c 07	N72-20141 *
US-PATENT-CLASS-330-61	c 09	N71-23097 *	US-PATENT-CLASS-331-64	c 33	N78-32338 *	US-PATENT-CLASS-332-52	c 33	N77-21314 *
US-PATENT-CLASS-330-63	c 33	N75-30428 *	US-PATENT-CLASS-331-65	c 35	N75-29380 *	US-PATENT-CLASS-332-7.51	c 16	N72-25485 *
US-PATENT-CLASS-330-69	c 33	N74-32712 *	US-PATENT-CLASS-331-65	c 33	N80-23559 *	US-PATENT-CLASS-332-7.51	c 07	N73-26119 *
US-PATENT-CLASS-330-69	c 33	N75-19518 *	US-PATENT-CLASS-331-66	c 07	N72-11150 *	US-PATENT-CLASS-332-7.51	c 33	N74-20859 *
US-PATENT-CLASS-330-6	c 35	N75-13213 *	US-PATENT-CLASS-331-66	c 33	N86-32624 *	US-PATENT-CLASS-332-7.51	c 36	N76-18427 *
US-PATENT-CLASS-330-70CR	c 10	N73-27171 *	US-PATENT-CLASS-331-78	c 09	N71-23598 *	US-PATENT-CLASS-332-7.5	c 36	N75-15029 *
US-PATENT-CLASS-330-70R	c 09	N72-21245 *	US-PATENT-CLASS-331-78	c 08	N73-12175 *	US-PATENT-CLASS-332-7.5	c 36	N78-18410 *
US-PATENT-CLASS-330-80T	c 09	N73-20232 *	US-PATENT-CLASS-331-78	c 33	N75-19515 *	US-PATENT-CLASS-332-7.5	c 36	N83-35350 *
US-PATENT-CLASS-330-85	c 09	N72-21245 *	US-PATENT-CLASS-331-7	c 07	N72-11150 *	US-PATENT-CLASS-332-751	c 36	N80-16321 *
US-PATENT-CLASS-330-86	c 09	N73-20231 *	US-PATENT-CLASS-331-82	c 33	N84-27974 *	US-PATENT-CLASS-332-9R	c 08	N71-29138 *
US-PATENT-CLASS-330-86	c 33	N75-19518 *	US-PATENT-CLASS-331-90	c 09	N73-15235 *	US-PATENT-CLASS-332-9	c 07	N71-12390 *
US-PATENT-CLASS-330-86	c 33	N79-22373 *	US-PATENT-CLASS-331-94.1	c 33	N85-29143 *	US-PATENT-CLASS-333-104	c 33	N82-16340 *
US-PATENT-CLASS-330-8	c 33	N81-24338 *	US-PATENT-CLASS-331-94.5A	c 16	N73-33397 *	US-PATENT-CLASS-333-12	c 32	N80-32605 *
US-PATENT-CLASS-330-94	c 10	N72-17172 *	US-PATENT-CLASS-331-94.5A	c 36	N75-27364 *	US-PATENT-CLASS-333-12	c 33	N81-27397 *
US-PATENT-CLASS-330-9	c 33	N74-14939 *	US-PATENT-CLASS-331-94.5C	c 36	N75-31427 *	US-PATENT-CLASS-333-14	c 32	N74-19788 *
US-PATENT-CLASS-331-DIG.1	c 36	N75-30524 *	US-PATENT-CLASS-331-94.5C	c 36	N76-18428 *	US-PATENT-CLASS-333-162	c 33	N84-16452 *
US-PATENT-CLASS-331-DIG.2	c 33	N81-33405 *	US-PATENT-CLASS-331-94.5C	c 36	N76-24553 *	US-PATENT-CLASS-333-162	c 33	N84-27974 *

US-PATENT-CLASS-333-16	c 33	N74-17927 *	US-PATENT-CLASS-337-114	c 09	N71-29035 *	US-PATENT-CLASS-340-146.1E	c 32	N79-10263 *
US-PATENT-CLASS-333-17R	c 33	N78-32340 *	US-PATENT-CLASS-337-121	c 09	N71-29035 *	US-PATENT-CLASS-340-146.1	c 09	N71-18843 *
US-PATENT-CLASS-333-17	c 44	N74-19870 *	US-PATENT-CLASS-337-140	c 37	N86-19604 *	US-PATENT-CLASS-340-146.1	c 08	N71-22749 *
US-PATENT-CLASS-333-18	c 33	N74-17927 *	US-PATENT-CLASS-337-14	c 31	N83-31897 *	US-PATENT-CLASS-340-146.1	c 10	N71-26103 *
US-PATENT-CLASS-333-18	c 32	N76-21366 *	US-PATENT-CLASS-337-334	c 37	N77-19458 *	US-PATENT-CLASS-340-146.1	c 08	N71-27255 *
US-PATENT-CLASS-333-204	c 33	N81-17348 *	US-PATENT-CLASS-337-354	c 15	N72-12409 *	US-PATENT-CLASS-340-146.1	c 08	N71-22167 *
US-PATENT-CLASS-333-20	c 33	N82-24418 *	US-PATENT-CLASS-337-359	c 15	N72-12409 *	US-PATENT-CLASS-340-146.1	c 08	N72-25207 *
US-PATENT-CLASS-333-21A	c 07	N71-33606 *	US-PATENT-CLASS-337-393	c 37	N87-23970 *	US-PATENT-CLASS-340-146.1	c 07	N73-13149 *
US-PATENT-CLASS-333-21R	c 33	N75-30430 *	US-PATENT-CLASS-337-75	c 15	N72-12409 *	US-PATENT-CLASS-340-146.2	c 08	N71-12505 *
US-PATENT-CLASS-333-214	c 33	N87-22895 *	US-PATENT-CLASS-337	c 25	N79-28253 *	US-PATENT-CLASS-340-146.2	c 08	N71-23295 *
US-PATENT-CLASS-333-217	c 33	N87-22895 *	US-PATENT-CLASS-338-100	c 35	N78-17359 *	US-PATENT-CLASS-340-146.3H	c 74	N81-19896 *
US-PATENT-CLASS-333-21	c 07	N71-10676 *	US-PATENT-CLASS-338-114	c 52	N74-27864 *	US-PATENT-CLASS-340-146.3P	c 43	N77-10584 *
US-PATENT-CLASS-333-22F	c 32	N83-27085 *	US-PATENT-CLASS-338-13	c 24	N75-30260 *	US-PATENT-CLASS-340-146.3Q	c 43	N77-10584 *
US-PATENT-CLASS-333-231	c 33	N85-29143 *	US-PATENT-CLASS-338-162	c 37	N75-13265 *	US-PATENT-CLASS-340-146.3S	c 74	N81-19896 *
US-PATENT-CLASS-333-24	c 36	N83-35350 *	US-PATENT-CLASS-338-18	c 35	N79-33449 *	US-PATENT-CLASS-340-146.3Y	c 74	N81-19896 *
US-PATENT-CLASS-333-24R	c 09	N72-29172 *	US-PATENT-CLASS-338-229	c 35	N77-24454 *	US-PATENT-CLASS-340-147C	c 60	N76-14818 *
US-PATENT-CLASS-333-24R	c 36	N80-18372 *	US-PATENT-CLASS-338-25	c 35	N77-21393 *	US-PATENT-CLASS-340-147R	c 07	N73-20176 *
US-PATENT-CLASS-333-246	c 33	N82-16340 *	US-PATENT-CLASS-338-25	c 35	N82-24470 *	US-PATENT-CLASS-340-147R	c 60	N76-14818 *
US-PATENT-CLASS-333-252	c 32	N80-32605 *	US-PATENT-CLASS-338-275	c 35	N82-24470 *	US-PATENT-CLASS-340-147SY	c 17	N76-22245 *
US-PATENT-CLASS-333-254	c 32	N83-27085 *	US-PATENT-CLASS-338-283	c 24	N75-30260 *	US-PATENT-CLASS-340-147	c 09	N70-33182 *
US-PATENT-CLASS-333-262	c 33	N80-18285 *	US-PATENT-CLASS-338-28	c 35	N77-20400 *	US-PATENT-CLASS-340-147	c 09	N70-38998 *
US-PATENT-CLASS-333-30	c 10	N71-25900 *	US-PATENT-CLASS-338-28	c 35	N77-24454 *	US-PATENT-CLASS-340-15.5GC	c 14	N73-26432 *
US-PATENT-CLASS-333-6	c 07	N71-33606 *	US-PATENT-CLASS-338-28	c 35	N82-24470 *	US-PATENT-CLASS-340-150	c 10	N71-27272 *
US-PATENT-CLASS-333-7OCR	c 10	N72-17171 *	US-PATENT-CLASS-338-2	c 33	N75-31329 *	US-PATENT-CLASS-340-151	c 33	N74-27862 *
US-PATENT-CLASS-333-70R	c 32	N71-18307 *	US-PATENT-CLASS-338-2	c 35	N80-20560 *	US-PATENT-CLASS-340-163	c 07	N73-20176 *
US-PATENT-CLASS-333-72	c 10	N71-25900 *	US-PATENT-CLASS-338-2	c 52	N80-27072 *	US-PATENT-CLASS-340-164	c 10	N71-27272 *
US-PATENT-CLASS-333-72	c 71	N77-26919 *	US-PATENT-CLASS-338-2	c 35	N84-12443 *	US-PATENT-CLASS-340-166	c 10	N71-27272 *
US-PATENT-CLASS-333-73R	c 09	N73-26195 *	US-PATENT-CLASS-338-309	c 27	N84-33589 *	US-PATENT-CLASS-340-166	c 10	N73-32144 *
US-PATENT-CLASS-333-73S	c 09	N73-26195 *	US-PATENT-CLASS-338-325	c 33	N78-13320 *	US-PATENT-CLASS-340-167	c 07	N72-25173 *
US-PATENT-CLASS-333-73W	c 07	N72-20141 *	US-PATENT-CLASS-338-320	c 33	N74-14935 *	US-PATENT-CLASS-340-171	c 09	N72-22202 *
US-PATENT-CLASS-333-73	c 07	N69-24323 *	US-PATENT-CLASS-338-36	c 35	N78-17359 *	US-PATENT-CLASS-340-171	c 16	N73-16536 *
US-PATENT-CLASS-333-73	c 09	N71-23573 *	US-PATENT-CLASS-338-5	c 32	N71-15974 *	US-PATENT-CLASS-340-172.5	c 08	N69-21928 *
US-PATENT-CLASS-333-75	c 32	N77-18307 *	US-PATENT-CLASS-338-5	c 52	N74-27864 *	US-PATENT-CLASS-340-172.5	c 09	N69-24333 *
US-PATENT-CLASS-333-76	c 32	N77-18307 *	US-PATENT-CLASS-338-64	c 09	N71-21583 *	US-PATENT-CLASS-340-172.5	c 08	N71-12502 *
US-PATENT-CLASS-333-79	c 10	N70-41964 *	US-PATENT-CLASS-338-6	c 35	N76-14430 *	US-PATENT-CLASS-340-172.5	c 08	N71-12506 *
US-PATENT-CLASS-333-79	c 09	N72-25256 *	US-PATENT-CLASS-338-6	c 52	N76-29895 *	US-PATENT-CLASS-340-172.5	c 31	N71-15566 *
US-PATENT-CLASS-333-7	c 07	N71-33606 *	US-PATENT-CLASS-338-75	c 37	N75-13265 *	US-PATENT-CLASS-340-172.5	c 08	N71-19288 *
US-PATENT-CLASS-333-7	c 07	N72-25170 *	US-PATENT-CLASS-338-82	c 09	N71-20842 *	US-PATENT-CLASS-340-172.5	c 08	N71-22707 *
US-PATENT-CLASS-333-80R	c 33	N74-32712 *	US-PATENT-CLASS-338-89	c 35	N74-32877 *	US-PATENT-CLASS-340-172.5	c 08	N71-22710 *
US-PATENT-CLASS-333-80T	c 10	N72-33230 *	US-PATENT-CLASS-338-97	c 37	N75-13265 *	US-PATENT-CLASS-340-172.5	c 07	N71-24624 *
US-PATENT-CLASS-333-80	c 09	N71-12517 *	US-PATENT-CLASS-338-99	c 35	N78-17359 *	US-PATENT-CLASS-340-172.5	c 08	N71-27255 *
US-PATENT-CLASS-333-80	c 09	N72-1245 *	US-PATENT-CLASS-339-143C	c 33	N76-16332 *	US-PATENT-CLASS-340-172.5	c 07	N72-25172 *
US-PATENT-CLASS-333-81B	c 14	N73-13420 *	US-PATENT-CLASS-339-143R	c 09	N72-25256 *	US-PATENT-CLASS-340-172.5	c 08	N72-25207 *
US-PATENT-CLASS-333-81R	c 07	N72-25170 *	US-PATENT-CLASS-339-147R	c 09	N72-25256 *	US-PATENT-CLASS-340-172.5	c 09	N72-25248 *
US-PATENT-CLASS-333-81R	c 33	N78-32340 *	US-PATENT-CLASS-339-150	c 09	N69-21470 *	US-PATENT-CLASS-340-172.5	c 08	N73-13187 *
US-PATENT-CLASS-333-81R	c 32	N80-14281 *	US-PATENT-CLASS-339-17M	c 37	N76-27567 *	US-PATENT-CLASS-340-172.5	c 08	N73-26176 *
US-PATENT-CLASS-333-81	c 07	N71-29065 *	US-PATENT-CLASS-339-17R	c 15	N71-29133 *	US-PATENT-CLASS-340-172.5	c 60	N76-18800 *
US-PATENT-CLASS-333-82A	c 09	N73-26195 *	US-PATENT-CLASS-339-176MF	c 09	N72-28225 *	US-PATENT-CLASS-340-172.5	c 60	N76-21914 *
US-PATENT-CLASS-333-82B	c 32	N77-18307 *	US-PATENT-CLASS-339-176	c 15	N72-17455 *	US-PATENT-CLASS-340-172.5	c 60	N77-14751 *
US-PATENT-CLASS-333-83BT	c 33	N75-30430 *	US-PATENT-CLASS-339-176	c 09	N70-34596 *	US-PATENT-CLASS-340-172.5	c 60	N77-19760 *
US-PATENT-CLASS-333-83R	c 36	N74-11313 *	US-PATENT-CLASS-339-177	c 09	N70-36494 *	US-PATENT-CLASS-340-173.2	c 08	N72-21198 *
US-PATENT-CLASS-333-83	c 09	N71-24841 *	US-PATENT-CLASS-339-177	c 09	N71-20851 *	US-PATENT-CLASS-340-173.2	c 08	N72-21198 *
US-PATENT-CLASS-333-84M	c 09	N73-26195 *	US-PATENT-CLASS-339-17	c 14	N69-27431 *	US-PATENT-CLASS-340-173CA	c 33	N75-31331 *
US-PATENT-CLASS-333-8	c 07	N69-24334 *	US-PATENT-CLASS-339-17	c 15	N71-17685 *	US-PATENT-CLASS-340-173CR	c 60	N74-12888 *
US-PATENT-CLASS-333-95	c 07	N71-27191 *	US-PATENT-CLASS-339-17	c 09	N71-26133 *	US-PATENT-CLASS-340-173LM	c 60	N74-12888 *
US-PATENT-CLASS-333-96	c 09	N71-20445 *	US-PATENT-CLASS-339-18C	c 37	N76-27567 *	US-PATENT-CLASS-340-173LM	c 60	N78-10709 *
US-PATENT-CLASS-333-96	c 07	N71-27191 *	US-PATENT-CLASS-339-198R	c 33	N76-16332 *	US-PATENT-CLASS-340-173LS	c 08	N72-21198 *
US-PATENT-CLASS-333-97R	c 36	N74-11313 *	US-PATENT-CLASS-339-218M	c 09	N72-28225 *	US-PATENT-CLASS-340-173LS	c 36	N75-19652 *
US-PATENT-CLASS-333-97	c 07	N69-27462 *	US-PATENT-CLASS-339-242	c 33	N76-16332 *	US-PATENT-CLASS-340-173	c 10	N73-32144 *
US-PATENT-CLASS-333-98P	c 07	N72-25170 *	US-PATENT-CLASS-339-252R	c 52	N77-14738 *	US-PATENT-CLASS-340-174.1L	c 35	N74-11283 *
US-PATENT-CLASS-333-98P	c 09	N72-29172 *	US-PATENT-CLASS-339-258RR	c 33	N84-14423 *	US-PATENT-CLASS-340-174.1M	c 36	N74-13205 *
US-PATENT-CLASS-333-98R	c 07	N72-25170 *	US-PATENT-CLASS-339-262RR	c 33	N84-14423 *	US-PATENT-CLASS-340-174.1M	c 35	N78-29421 *
US-PATENT-CLASS-333-98R	c 09	N72-29172 *	US-PATENT-CLASS-339-275R	c 33	N76-16332 *	US-PATENT-CLASS-340-174.1M	c 35	N79-16246 *
US-PATENT-CLASS-333-98R	c 14	N73-13420 *	US-PATENT-CLASS-339-275T	c 09	N72-20200 *	US-PATENT-CLASS-340-174.1R	c 21	N73-13644 *
US-PATENT-CLASS-333-98R	c 33	N75-30430 *	US-PATENT-CLASS-339-276T	c 09	N72-20200 *	US-PATENT-CLASS-340-174.1	c 08	N71-21042 *
US-PATENT-CLASS-333-98S	c 07	N72-25170 *	US-PATENT-CLASS-339-278M	c 15	N72-17455 *	US-PATENT-CLASS-340-174.1	c 07	N71-23001 *
US-PATENT-CLASS-333-98	c 09	N71-23548 *	US-PATENT-CLASS-339-3R	c 07	N83-20944 *	US-PATENT-CLASS-340-174.1	c 08	N71-27210 *
US-PATENT-CLASS-333-98	c 09	N71-24808 *	US-PATENT-CLASS-339-45M	c 15	N72-25450 *	US-PATENT-CLASS-340-174AG	c 23	N72-17747 *
US-PATENT-CLASS-333-99S	c 32	N80-32605 *	US-PATENT-CLASS-339-46	c 15	N72-17455 *	US-PATENT-CLASS-340-174CS	c 08	N72-21199 *
US-PATENT-CLASS-335-100	c 37	N85-30333 *	US-PATENT-CLASS-339-5R	c 07	N83-20944 *	US-PATENT-CLASS-340-174CT	c 23	N72-17747 *
US-PATENT-CLASS-335-205	c 09	N72-20199 *	US-PATENT-CLASS-339-5	c 15	N71-23049 *	US-PATENT-CLASS-340-174GA	c 23	N72-17747 *
US-PATENT-CLASS-335-216	c 16	N71-28554 *	US-PATENT-CLASS-339-64M	c 33	N84-14423 *	US-PATENT-CLASS-340-174LC	c 08	N72-21199 *
US-PATENT-CLASS-335-216	c 23	N71-29049 *	US-PATENT-CLASS-339-75MP	c 09	N72-28225 *	US-PATENT-CLASS-340-174MA	c 24	N75-13032 *
US-PATENT-CLASS-335-216	c 26	N73-32571 *	US-PATENT-CLASS-339-91B	c 15	N72-25450 *	US-PATENT-CLASS-340-174M	c 08	N72-21199 *
US-PATENT-CLASS-335-216	c 20	N75-24837 *	US-PATENT-CLASS-339-91	c 09	N69-21927 *	US-PATENT-CLASS-340-174SC	c 23	N72-17747 *
US-PATENT-CLASS-335-216	c 33	N79-21264 *	US-PATENT-CLASS-339-94M	c 09	N72-28225 *	US-PATENT-CLASS-340-174SR	c 08	N72-21199 *
US-PATENT-CLASS-335-222	c 35	N84-28017 *	US-PATENT-CLASS-339-95	c 09	N69-39734 *	US-PATENT-CLASS-340-174YC	c 36	N74-13205 *
US-PATENT-CLASS-335-229	c 33	N82-24421 *	US-PATENT-CLASS-339-12R	c 52	N77-25772 *	US-PATENT-CLASS-340-174YC	c 35	N78-29421 *
US-PATENT-CLASS-335-256	c 33	N82-11357 *	US-PATENT-CLASS-34-155	c 14	N73-28489 *	US-PATENT-CLASS-340-174	c 08	N71-12504 *
US-PATENT-CLASS-335-266	c 33	N82-11357 *	US-PATENT-CLASS-34-160	c 14	N73-28489 *	US-PATENT-CLASS-340-174	c 08	N71-12515 *
US-PATENT-CLASS-335-266	c 33	N82-24421 *	US-PATENT-CLASS-34-162	c 14	N73-28489 *	US-PATENT-CLASS-340-174	c 08	N71-18595 *
US-PATENT-CLASS-335-296	c 09	N73-30185 *	US-PATENT-CLASS-34-162	c 35	N74-15831 *	US-PATENT-CLASS-340-174	c 10	N71-18694 *
US-PATENT-CLASS-335-297	c 09	N73-30185 *	US-PATENT-CLASS-34-57A	c 35	N83-24828 *	US-PATENT-CLASS-340-174	c 10	N71-26418 *
US-PATENT-CLASS-335-300	c 09	N70-41929 *	US-PATENT-CLASS-340-12R	c 35	N74-16135 *	US-PATENT-CLASS-340-174	c 10	N71-26434 *
US-PATENT-CLASS-336-DIG.1	c 26	N73-26752 *	US-PATENT-CLASS-340-12R	c 46	N79-23555 *	US-PATENT-CLASS-340-174	c 08	N71-28925 *
US-PATENT-CLASS-336-DIG.1	c 33	N79-17133 *	US-PATENT-CLASS-340-146.1AL	c 08	N72-25210 *	US-PATENT-CLASS-340-174	c 10	N71-29135 *
US-PATENT-CLASS-336-120	c 33	N82-24422 *	US-PATENT-CLASS-340-146.1AL	c 08	N73-12175 *	US-PATENT-CLASS-340-177VA	c 06	N80-18036 *
US-PATENT-CLASS-336-178	c 09	N72-17154 *	US-PATENT-CLASS-340-146.1AL	c 32	N77-12240 *	US-PATENT-CLASS-340-177	c 09	N72-17153 *
US-PATENT-CLASS-336-198	c 09	N72-27226 *	US-PATENT-CLASS-340-146.1AQ	c 08	N73-12177 *	US-PATENT-CLASS-340-182	c 33	N74-27862 *
US-PATENT-CLASS-336-198	c 33	N85-29146 *	US-PATENT-CLASS-340-146.1AQ	c 32	N74-32598 *	US-PATENT-CLASS-340-183	c 52	N74-26625 *
US-PATENT-CLASS-336-200	c 26	N73-26752 *	US-PATENT-CLASS-340-146.1AQ	c 32	N77-12240 *	US-PATENT-CLASS-340-189M	c 17	N76-29347 *
US-PATENT-CLASS-336-210	c 33	N74-17928 *	US-PATENT-CLASS-340-146.1AV	c 08	N73-12177 *	US-PATENT-CLASS-340-198	c 14	N70-33179 *
US-PATENT-CLASS-336-220	c 09	N72-27226 *	US-PATENT-CLASS-340-146.1AV	c 32	N77-12240 *	US-PATENT-CLASS-340-198	c 07	N71-1298 *
US-PATENT-CLASS-336-60	c 09	N72-27226 *	US-PATENT-CLASS-340-146.1AX	c 32	N79-10263 *	US-PATENT-CLASS-340-200	c 33	N74-27862 *
US-PATENT-CLASS-336-83	c 33	N82-24422 *	US-PATENT-CLASS-340-146.1C	c 07	N73-20176 *	US-PATENT-CLASS-340-200	c 33	N77-31404 *
US-PATENT-CLASS-336-84C	c 33	N85-29146 *						

US-PATENT-CLASS-340-203	c 09	N72-22202 *	US-PATENT-CLASS-340-347	c 10	N71-26544 *	US-PATENT-CLASS-343-112D	c 14	N72-28437 *
US-PATENT-CLASS-340-203	c 52	N74-26625 *	US-PATENT-CLASS-340-347	c 08	N73-28045 *	US-PATENT-CLASS-343-112D	c 32	N75-26194 *
US-PATENT-CLASS-340-206	c 17	N76-29347 *	US-PATENT-CLASS-340-348	c 08	N72-22167 *	US-PATENT-CLASS-343-112D	c 46	N80-14603 *
US-PATENT-CLASS-340-207P	c 17	N76-22245 *	US-PATENT-CLASS-340-38P	c 66	N76-19888 *	US-PATENT-CLASS-343-112R	c 09	N73-32110 *
US-PATENT-CLASS-340-207R	c 52	N74-26625 *	US-PATENT-CLASS-340-403	c 10	N71-27272 *	US-PATENT-CLASS-343-112R	c 17	N78-17140 *
US-PATENT-CLASS-340-207	c 07	N73-25160 *	US-PATENT-CLASS-340-407	c 71	N74-21014 *	US-PATENT-CLASS-343-112R	c 04	N80-32359 *
US-PATENT-CLASS-340-210	c 03	N72-20031 *	US-PATENT-CLASS-340-407	c 82	N87-29372 *	US-PATENT-CLASS-343-112R	c 32	N81-27341 *
US-PATENT-CLASS-340-213.1	c 10	N71-19417 *	US-PATENT-CLASS-340-412	c 10	N71-24798 *	US-PATENT-CLASS-343-112TC	c 17	N76-21250 *
US-PATENT-CLASS-340-213R	c 54	N78-32720 *	US-PATENT-CLASS-340-415	c 10	N73-32144 *	US-PATENT-CLASS-343-112	c 21	N71-13958 *
US-PATENT-CLASS-340-213	c 10	N71-27272 *	US-PATENT-CLASS-340-418	c 14	N73-16484 *	US-PATENT-CLASS-343-112	c 02	N71-19287 *
US-PATENT-CLASS-340-223	c 10	N73-32144 *	US-PATENT-CLASS-340-5C	c 14	N73-27379 *	US-PATENT-CLASS-343-112	c 21	N71-24948 *
US-PATENT-CLASS-340-224	c 37	N77-19458 *	US-PATENT-CLASS-340-5H	c 32	N77-21267 *	US-PATENT-CLASS-343-113R	c 09	N73-32110 *
US-PATENT-CLASS-340-227R	c 14	N72-25412 *	US-PATENT-CLASS-340-5R	c 35	N74-16135 *	US-PATENT-CLASS-343-113R	c 44	N78-28594 *
US-PATENT-CLASS-340-227	c 10	N71-16058 *	US-PATENT-CLASS-340-518	c 35	N83-34272 *	US-PATENT-CLASS-343-113	c 10	N71-21473 *
US-PATENT-CLASS-340-227	c 14	N71-27186 *	US-PATENT-CLASS-340-555	c 74	N85-22139 *	US-PATENT-CLASS-343-113	c 07	N71-24625 *
US-PATENT-CLASS-340-228.2	c 10	N72-17173 *	US-PATENT-CLASS-340-566	c 35	N83-34272 *	US-PATENT-CLASS-343-117R	c 32	N79-13214 *
US-PATENT-CLASS-340-228S	c 14	N73-16484 *	US-PATENT-CLASS-340-57	c 14	N71-15620 *	US-PATENT-CLASS-343-117	c 07	N71-27056 *
US-PATENT-CLASS-340-233	c 14	N71-25901 *	US-PATENT-CLASS-340-602	c 33	N80-23559 *	US-PATENT-CLASS-343-118	c 32	N79-13214 *
US-PATENT-CLASS-340-235	c 10	N71-26334 *	US-PATENT-CLASS-340-604	c 33	N80-23559 *	US-PATENT-CLASS-343-119	c 44	N78-28594 *
US-PATENT-CLASS-340-237S	c 45	N76-17656 *	US-PATENT-CLASS-340-605	c 25	N86-27431 *	US-PATENT-CLASS-343-12R	c 08	N72-25209 *
US-PATENT-CLASS-340-240	c 09	N72-27227 *	US-PATENT-CLASS-340-650	c 33	N79-18193 *	US-PATENT-CLASS-343-12	c 21	N70-41930 *
US-PATENT-CLASS-340-242	c 35	N75-19612 *	US-PATENT-CLASS-340-664	c 33	N79-18193 *	US-PATENT-CLASS-343-12	c 10	N72-20224 *
US-PATENT-CLASS-340-248	c 10	N71-27338 *	US-PATENT-CLASS-340-705	c 06	N84-27733 *	US-PATENT-CLASS-343-13-R	c 74	N85-34629 *
US-PATENT-CLASS-340-258R	c 07	N73-25160 *	US-PATENT-CLASS-340-8LF	c 71	N79-23753 *	US-PATENT-CLASS-343-13	c 09	N71-18598 *
US-PATENT-CLASS-340-258	c 10	N72-28240 *	US-PATENT-CLASS-340-8R	c 35	N74-16135 *	US-PATENT-CLASS-343-14	c 07	N70-41680 *
US-PATENT-CLASS-340-25	c 14	N73-16483 *	US-PATENT-CLASS-340-825.21	c 60	N84-28492 *	US-PATENT-CLASS-343-14	c 08	N72-25209 *
US-PATENT-CLASS-340-262	c 54	N78-32720 *	US-PATENT-CLASS-340-825.5	c 60	N84-28492 *	US-PATENT-CLASS-343-14	c 14	N73-25461 *
US-PATENT-CLASS-340-26	c 21	N72-22619 *	US-PATENT-CLASS-340-825.5	c 17	N87-16863 *	US-PATENT-CLASS-343-14	c 32	N79-14267 *
US-PATENT-CLASS-340-26	c 04	N82-16059 *	US-PATENT-CLASS-340-825.89	c 33	N82-29538 *	US-PATENT-CLASS-343-14	c 31	N79-28370 *
US-PATENT-CLASS-340-27AT	c 21	N73-14692 *	US-PATENT-CLASS-340-870.13	c 35	N84-22934 *	US-PATENT-CLASS-343-16M	c 10	N72-22235 *
US-PATENT-CLASS-340-27NA	c 21	N73-13643 *	US-PATENT-CLASS-340-870.18	c 17	N87-16863 *	US-PATENT-CLASS-343-16M	c 44	N78-28594 *
US-PATENT-CLASS-340-27NA	c 06	N82-16075 *	US-PATENT-CLASS-340-870.24	c 33	N81-14221 *	US-PATENT-CLASS-343-16	c 09	N71-20864 *
US-PATENT-CLASS-340-27R	c 14	N73-16483 *	US-PATENT-CLASS-340-905	c 35	N84-33769 *	US-PATENT-CLASS-343-16	c 10	N71-21483 *
US-PATENT-CLASS-340-27R	c 14	N73-20474 *	US-PATENT-CLASS-340-945	c 06	N87-22678 *	US-PATENT-CLASS-343-17.1PF	c 32	N82-23376 *
US-PATENT-CLASS-340-27SS	c 35	N78-14364 *	US-PATENT-CLASS-340-967	c 08	N87-20999 *	US-PATENT-CLASS-343-17.2-PC	c 32	N85-34327 *
US-PATENT-CLASS-340-271	c 35	N77-30436 *	US-PATENT-CLASS-340-968	c 06	N86-27280 *	US-PATENT-CLASS-343-17.2PC	c 35	N79-10391 *
US-PATENT-CLASS-340-277	c 10	N73-30205 *	US-PATENT-CLASS-340-971	c 06	N84-27733 *	US-PATENT-CLASS-343-17.2	c 07	N70-36911 *
US-PATENT-CLASS-340-279	c 05	N72-16015 *	US-PATENT-CLASS-340-971	c 06	N87-22678 *	US-PATENT-CLASS-343-17.5	c 14	N73-25461 *
US-PATENT-CLASS-340-279	c 10	N73-30205 *	US-PATENT-CLASS-340-975	c 06	N84-27733 *	US-PATENT-CLASS-343-17.5	c 32	N75-15854 *
US-PATENT-CLASS-340-279	c 54	N78-32720 *	US-PATENT-CLASS-340-975	c 06	N87-22678 *	US-PATENT-CLASS-343-17.5	c 32	N84-22820 *
US-PATENT-CLASS-340-285	c 14	N71-25901 *	US-PATENT-CLASS-340-978	c 06	N84-27733 *	US-PATENT-CLASS-343-17.7	c 07	N71-12391 *
US-PATENT-CLASS-340-285	c 54	N78-32720 *	US-PATENT-CLASS-340-97	c 21	N73-13643 *	US-PATENT-CLASS-343-17.7	c 44	N74-19870 *
US-PATENT-CLASS-340-309.1	c 54	N78-32720 *	US-PATENT-CLASS-340-980	c 06	N84-27733 *	US-PATENT-CLASS-343-17.7	c 32	N77-31350 *
US-PATENT-CLASS-340-309.4	c 33	N81-14221 *	US-PATENT-CLASS-340-988	c 35	N84-33769 *	US-PATENT-CLASS-343-17.7	c 32	N79-11265 *
US-PATENT-CLASS-340-310A	c 33	N81-14221 *	US-PATENT-CLASS-343-DIG.2	c 07	N73-24176 *	US-PATENT-CLASS-343-17.7	c 32	N84-27951 *
US-PATENT-CLASS-340-310R	c 33	N81-14221 *	US-PATENT-CLASS-343-DIG.2	c 33	N74-20860 *	US-PATENT-CLASS-343-17.7	c 33	N85-21493 *
US-PATENT-CLASS-340-324AD	c 33	N75-19517 *	US-PATENT-CLASS-343-DIG.2	c 37	N86-25791 *	US-PATENT-CLASS-343-176	c 07	N71-27056 *
US-PATENT-CLASS-340-324A	c 09	N72-25248 *	US-PATENT-CLASS-343-DIG.3	c 09	N72-12136 *	US-PATENT-CLASS-343-176	c 32	N76-14321 *
US-PATENT-CLASS-340-324R	c 26	N72-25680 *	US-PATENT-CLASS-343-DIG2	c 07	N83-20944 *	US-PATENT-CLASS-343-179	c 07	N72-11149 *
US-PATENT-CLASS-340-324	c 08	N71-12507 *	US-PATENT-CLASS-343-100AP	c 33	N83-36355 *	US-PATENT-CLASS-343-179	c 07	N73-20174 *
US-PATENT-CLASS-340-324	c 09	N71-33519 *	US-PATENT-CLASS-343-100CL	c 32	N77-32342 *	US-PATENT-CLASS-343-179	c 32	N78-15323 *
US-PATENT-CLASS-340-332	c 09	N72-25250 *	US-PATENT-CLASS-343-100CL	c 32	N79-14268 *	US-PATENT-CLASS-343-179	c 32	N79-20296 *
US-PATENT-CLASS-340-336	c 09	N71-33519 *	US-PATENT-CLASS-343-100CL	c 32	N81-29308 *	US-PATENT-CLASS-343-18A	c 32	N80-14281 *
US-PATENT-CLASS-340-333	c 21	N73-13643 *	US-PATENT-CLASS-343-100CL	c 32	N83-18975 *	US-PATENT-CLASS-343-18B	c 32	N74-12912 *
US-PATENT-CLASS-340-347AD	c 14	N71-28991 *	US-PATENT-CLASS-343-100CL	c 32	N83-19968 *	US-PATENT-CLASS-343-18B	c 32	N77-21267 *
US-PATENT-CLASS-340-347AD	c 08	N72-21200 *	US-PATENT-CLASS-343-100ME	c 14	N72-28437 *	US-PATENT-CLASS-343-18B	c 43	N80-18498 *
US-PATENT-CLASS-340-347AD	c 08	N72-22163 *	US-PATENT-CLASS-343-100ME	c 14	N73-26432 *	US-PATENT-CLASS-343-18D	c 43	N80-18498 *
US-PATENT-CLASS-340-347AD	c 08	N72-22166 *	US-PATENT-CLASS-343-100ME	c 46	N80-14603 *	US-PATENT-CLASS-343-18	c 31	N70-37981 *
US-PATENT-CLASS-340-347AD	c 08	N72-31226 *	US-PATENT-CLASS-343-100ME	c 35	N80-18359 *	US-PATENT-CLASS-343-18	c 07	N70-40063 *
US-PATENT-CLASS-340-347AD	c 08	N73-20217 *	US-PATENT-CLASS-343-100ME	c 46	N82-12685 *	US-PATENT-CLASS-343-18	c 30	N70-40309 *
US-PATENT-CLASS-340-347AD	c 35	N74-17885 *	US-PATENT-CLASS-343-100ME	c 06	N83-10040 *	US-PATENT-CLASS-343-18	c 07	N70-41678 *
US-PATENT-CLASS-340-347AD	c 35	N74-32877 *	US-PATENT-CLASS-343-100PE	c 32	N75-24982 *	US-PATENT-CLASS-343-200	c 07	N73-16121 *
US-PATENT-CLASS-340-347AD	c 33	N76-18345 *	US-PATENT-CLASS-343-100PE	c 33	N81-26358 *	US-PATENT-CLASS-343-204	c 07	N73-26118 *
US-PATENT-CLASS-340-347AD	c 60	N77-32731 *	US-PATENT-CLASS-343-100PE	c 46	N82-12685 *	US-PATENT-CLASS-343-225	c 17	N78-17140 *
US-PATENT-CLASS-340-347CC	c 31	N86-29055 *	US-PATENT-CLASS-343-100PE	c 35	N82-15381 *	US-PATENT-CLASS-343-352	c 43	N85-21723 *
US-PATENT-CLASS-340-347DA	c 08	N71-27057 *	US-PATENT-CLASS-343-100R	c 10	N73-16206 *	US-PATENT-CLASS-343-352	c 46	N85-21846 *
US-PATENT-CLASS-340-347DA	c 08	N72-20176 *	US-PATENT-CLASS-343-100R	c 33	N80-18287 *	US-PATENT-CLASS-343-356	c 04	N84-22546 *
US-PATENT-CLASS-340-347DA	c 08	N72-25206 *	US-PATENT-CLASS-343-100SA	c 10	N73-16206 *	US-PATENT-CLASS-343-357	c 04	N84-22546 *
US-PATENT-CLASS-340-347DA	c 08	N73-32081 *	US-PATENT-CLASS-343-100SA	c 33	N74-20860 *	US-PATENT-CLASS-343-357	c 04	N86-27270 *
US-PATENT-CLASS-340-347DD	c 10	N71-33407 *	US-PATENT-CLASS-343-100SA	c 17	N76-21250 *	US-PATENT-CLASS-343-376	c 33	N85-21493 *
US-PATENT-CLASS-340-347DD	c 08	N72-18184 *	US-PATENT-CLASS-343-100SA	c 32	N80-28578 *	US-PATENT-CLASS-343-418	c 04	N86-27270 *
US-PATENT-CLASS-340-347DD	c 08	N72-20176 *	US-PATENT-CLASS-343-100ST	c 07	N72-21118 *	US-PATENT-CLASS-343-460	c 46	N85-21846 *
US-PATENT-CLASS-340-347DD	c 08	N72-21197 *	US-PATENT-CLASS-343-100ST	c 33	N74-20860 *	US-PATENT-CLASS-343-5-CD	c 43	N86-19711 *
US-PATENT-CLASS-340-347DD	c 08	N73-12176 *	US-PATENT-CLASS-343-100ST	c 32	N75-15854 *	US-PATENT-CLASS-343-5-CD	c 32	N84-34651 *
US-PATENT-CLASS-340-347DD	c 60	N76-23850 *	US-PATENT-CLASS-343-100ST	c 17	N76-21250 *	US-PATENT-CLASS-343-5-CD	c 32	N85-34327 *
US-PATENT-CLASS-340-347DD	c 32	N77-12239 *	US-PATENT-CLASS-343-100ST	c 32	N77-20289 *	US-PATENT-CLASS-343-5-CD	c 43	N86-19711 *
US-PATENT-CLASS-340-347DD	c 60	N78-17691 *	US-PATENT-CLASS-343-100ST	c 33	N80-18287 *	US-PATENT-CLASS-343-5-DP	c 32	N84-34651 *
US-PATENT-CLASS-340-347DD	c 60	N79-20751 *	US-PATENT-CLASS-343-100TD	c 32	N79-24210 *	US-PATENT-CLASS-343-5-F	c 32	N84-34651 *
US-PATENT-CLASS-340-347DD	c 33	N82-26570 *	US-PATENT-CLASS-343-100TD	c 32	N81-14185 *	US-PATENT-CLASS-343-5-VQ	c 43	N86-19711 *
US-PATENT-CLASS-340-347DD	c 32	N86-27513 *	US-PATENT-CLASS-343-100	c 10	N71-18722 *	US-PATENT-CLASS-343-5-W	c 32	N85-34327 *
US-PATENT-CLASS-340-347P	c 60	N76-23850 *	US-PATENT-CLASS-343-100	c 07	N71-19854 *	US-PATENT-CLASS-343-5CM	c 07	N72-21118 *
US-PATENT-CLASS-340-347P	c 35	N77-30436 *	US-PATENT-CLASS-343-100	c 30	N71-23723 *	US-PATENT-CLASS-343-5CM	c 32	N77-21267 *
US-PATENT-CLASS-340-347R	c 08	N72-22165 *	US-PATENT-CLASS-343-100	c 07	N71-24621 *	US-PATENT-CLASS-343-5CM	c 32	N77-32342 *
US-PATENT-CLASS-340-347SH	c 33	N77-31404 *	US-PATENT-CLASS-343-100	c 09	N71-24804 *	US-PATENT-CLASS-343-5CM	c 35	N79-10391 *
US-PATENT-CLASS-340-347SY	c 62	N76-31946 *	US-PATENT-CLASS-343-100	c 31	N71-24813 *	US-PATENT-CLASS-343-5CM	c 32	N79-14268 *
US-PATENT-CLASS-340-347SY	c 35	N77-30436 *	US-PATENT-CLASS-343-100	c 07	N71-27056 *	US-PATENT-CLASS-343-5CM	c 43	N80-18498 *
US-PATENT-CLASS-340-347SY	c 31	N86-29055 *	US-PATENT-CLASS-343-100	c 07	N71-28900 *	US-PATENT-CLASS-343-5CM	c 32	N82-12297 *
US-PATENT-CLASS-340-347	c 08	N70-35423 *	US-PATENT-CLASS-343-105R	c 32	N75-26194 *	US-PATENT-CLASS-343-5CM	c 32	N83-18975 *
US-PATENT-CLASS-340-347	c 08	N70-40125 *	US-PATENT-CLASS-343-108R	c 04	N84-27713 *	US-PATENT-CLASS-343-5CM	c 32	N83-19968 *
US-PATENT-CLASS-340-347	c 08	N71-12501 *	US-PATENT-CLASS-343-11R	c 09	N73-12211 *	US-PATENT-CLASS-343-5DP	c 07	N72-11149 *
US-PATENT-CLASS-340-347	c 08	N71-18594 *	US-PATENT-CLASS-343-11VB	c 09	N73-12211 *	US-PATENT-CLASS-343-5DP	c 32	N77-32342 *
US-PATENT-CLASS-340-347	c 08	N71-19435 *	US-PATENT-CLASS-343-112CA	c 21	N73-13643 *	US-PATENT-CLASS-343-5DP	c 32	N75-24982 *
US-PATENT-CLASS-340-347	c 08	N71-19544 *	US-PATENT-CLASS-343-112CA	c 21	N73-30641 *	US-PATENT-CLASS-343-5MM	c 32	N77-21267 *
US-PATENT-CLASS-340-347	c 08	N71-19687 *	US-PATENT-CLASS-343-112CA	c 03	N75-30132 *			
US-PATENT-CLASS-340-347	c 08	N71-24650 *						
US-PATENT-CLASS-340-347	c 10	N71-25917 *						

US-PATENT-CLASS-343-5NA	c 31	N79-28370 *	US-PATENT-CLASS-343-786	c 07	N71-26101 *	US-PATENT-CLASS-343-9	c 32	N79-10264 *
US-PATENT-CLASS-343-5W	c 35	N79-10391 *	US-PATENT-CLASS-343-786	c 07	N71-27233 *	US-PATENT-CLASS-346-107A	c 14	N72-18411 *
US-PATENT-CLASS-343-5W	c 43	N80-18498 *	US-PATENT-CLASS-343-786	c 07	N72-20141 *	US-PATENT-CLASS-346-107	c 23	N71-23976 *
US-PATENT-CLASS-343-5W	c 46	N85-21846 *	US-PATENT-CLASS-343-786	c 10	N72-22235 *	US-PATENT-CLASS-346-108	c 35	N74-15831 *
US-PATENT-CLASS-343-6.BR	c 32	N77-20289 *	US-PATENT-CLASS-343-786	c 07	N72-25174 *	US-PATENT-CLASS-346-110	c 14	N73-32322 *
US-PATENT-CLASS-343-6.5R	c 07	N72-12080 *	US-PATENT-CLASS-343-786	c 09	N72-31235 *	US-PATENT-CLASS-346-138	c 21	N73-13644 *
US-PATENT-CLASS-343-6.5R	c 07	N72-21118 *	US-PATENT-CLASS-343-786	c 32	N74-20863 *	US-PATENT-CLASS-346-138	c 35	N74-15831 *
US-PATENT-CLASS-343-6.5R	c 07	N72-25171 *	US-PATENT-CLASS-343-786	c 32	N76-15330 *	US-PATENT-CLASS-346-1	c 12	N71-20815 *
US-PATENT-CLASS-343-6.5R	c 08	N72-25209 *	US-PATENT-CLASS-343-786	c 32	N76-21365 *	US-PATENT-CLASS-346-1	c 09	N72-21246 *
US-PATENT-CLASS-343-6.5R	c 07	N73-25161 *	US-PATENT-CLASS-343-786	c 32	N80-23524 *	US-PATENT-CLASS-346-23	c 14	N72-18411 *
US-PATENT-CLASS-343-6.5R	c 21	N73-30641 *	US-PATENT-CLASS-343-786	c 32	N80-29539 *	US-PATENT-CLASS-346-24	c 35	N74-15831 *
US-PATENT-CLASS-343-6.5R	c 32	N74-12912 *	US-PATENT-CLASS-343-786	c 32	N81-25278 *	US-PATENT-CLASS-346-29	c 09	N72-21246 *
US-PATENT-CLASS-343-6.5R	c 32	N75-15854 *	US-PATENT-CLASS-343-789	c 32	N81-14187 *	US-PATENT-CLASS-346-33R	c 35	N74-32877 *
US-PATENT-CLASS-343-6.5R	c 03	N75-30132 *	US-PATENT-CLASS-343-789	c 32	N82-27558 *	US-PATENT-CLASS-346-44	c 09	N69-21467 *
US-PATENT-CLASS-343-6.5R	c 32	N77-20289 *	US-PATENT-CLASS-343-795	c 32	N82-11336 *	US-PATENT-CLASS-346-50	c 14	N71-21006 *
US-PATENT-CLASS-343-6.5SS	c 32	N74-12912 *	US-PATENT-CLASS-343-797	c 09	N71-24842 *	US-PATENT-CLASS-346-74MD	c 21	N73-13644 *
US-PATENT-CLASS-343-6.5	c 21	N71-11766 *	US-PATENT-CLASS-343-797	c 07	N72-22127 *	US-PATENT-CLASS-346-74MT	c 35	N79-16246 *
US-PATENT-CLASS-343-6.5	c 10	N71-23099 *	US-PATENT-CLASS-343-797	c 09	N72-31235 *	US-PATENT-CLASS-346R	c 73	N77-18891 *
US-PATENT-CLASS-343-6.8.R	c 04	N86-19304 *	US-PATENT-CLASS-343-797	c 07	N73-28013 *	US-PATENT-CLASS-349	c 25	N79-28253 *
US-PATENT-CLASS-343-6.8R	c 07	N72-12080 *	US-PATENT-CLASS-343-797	c 32	N74-20863 *	US-PATENT-CLASS-35-10.2	c 14	N71-15621 *
US-PATENT-CLASS-343-6.8R	c 07	N73-25161 *	US-PATENT-CLASS-343-797	c 33	N76-14372 *	US-PATENT-CLASS-35-12C	c 14	N73-27377 *
US-PATENT-CLASS-343-6.8R	c 14	N73-25461 *	US-PATENT-CLASS-343-797	c 32	N81-14187 *	US-PATENT-CLASS-35-12C	c 09	N75-15662 *
US-PATENT-CLASS-343-6R	c 32	N79-10264 *	US-PATENT-CLASS-343-799	c 07	N71-27233 *	US-PATENT-CLASS-35-12C	c 74	N79-13855 *
US-PATENT-CLASS-343-6	c 30	N71-16090 *	US-PATENT-CLASS-343-803	c 07	N73-14130 *	US-PATENT-CLASS-35-12E	c 09	N74-30597 *
US-PATENT-CLASS-343-7.4	c 10	N72-22235 *	US-PATENT-CLASS-343-823	c 07	N71-28979 *	US-PATENT-CLASS-35-12E	c 09	N79-31228 *
US-PATENT-CLASS-343-7.4	c 32	N79-13214 *	US-PATENT-CLASS-343-830	c 32	N80-32604 *	US-PATENT-CLASS-35-12H	c 09	N79-31228 *
US-PATENT-CLASS-343-7.5	c 07	N69-39974 *	US-PATENT-CLASS-343-833	c 31	N70-34135 *	US-PATENT-CLASS-35-12H	c 09	N76-24280 *
US-PATENT-CLASS-343-7.5	c 09	N71-24595 *	US-PATENT-CLASS-343-837	c 07	N72-32169 *	US-PATENT-CLASS-35-12N	c 09	N78-18083 *
US-PATENT-CLASS-343-7.5	c 07	N72-11149 *	US-PATENT-CLASS-343-837	c 07	N73-14130 *	US-PATENT-CLASS-35-12N	c 74	N79-13855 *
US-PATENT-CLASS-343-7.5	c 44	N74-19870 *	US-PATENT-CLASS-343-837	c 33	N75-19516 *	US-PATENT-CLASS-35-12	c 11	N70-34815 *
US-PATENT-CLASS-343-7.5	c 32	N82-23376 *	US-PATENT-CLASS-343-837	c 32	N76-15329 *	US-PATENT-CLASS-35-12	c 31	N70-34966 *
US-PATENT-CLASS-343-700MS	c 32	N78-24391 *	US-PATENT-CLASS-343-837	c 32	N76-18295 *	US-PATENT-CLASS-35-12	c 11	N71-10746 *
US-PATENT-CLASS-343-700MS	c 32	N80-32604 *	US-PATENT-CLASS-343-837	c 32	N78-31321 *	US-PATENT-CLASS-35-12	c 11	N71-10748 *
US-PATENT-CLASS-343-700MS	c 32	N82-11336 *	US-PATENT-CLASS-343-839	c 09	N73-19234 *	US-PATENT-CLASS-35-12	c 11	N71-10776 *
US-PATENT-CLASS-343-703	c 09	N71-13521 *	US-PATENT-CLASS-343-840	c 07	N71-27233 *	US-PATENT-CLASS-35-12	c 11	N71-18773 *
US-PATENT-CLASS-343-703	c 07	N71-24614 *	US-PATENT-CLASS-343-840	c 09	N72-12136 *	US-PATENT-CLASS-35-12	c 11	N71-19494 *
US-PATENT-CLASS-343-705	c 07	N70-38200 *	US-PATENT-CLASS-343-840	c 07	N72-32169 *	US-PATENT-CLASS-35-12	c 11	N71-21474 *
US-PATENT-CLASS-343-705	c 07	N70-40202 *	US-PATENT-CLASS-343-840	c 32	N76-18295 *	US-PATENT-CLASS-35-12	c 18	N76-14186 *
US-PATENT-CLASS-343-705	c 31	N71-10747 *	US-PATENT-CLASS-343-840	c 33	N83-36355 *	US-PATENT-CLASS-35-17	c 05	N71-24606 *
US-PATENT-CLASS-343-705	c 03	N76-32140 *	US-PATENT-CLASS-343-844	c 32	N79-11264 *	US-PATENT-CLASS-35-19	c 10	N71-27365 *
US-PATENT-CLASS-343-706	c 07	N72-21117 *	US-PATENT-CLASS-343-844	c 32	N80-28578 *	US-PATENT-CLASS-35-22R	c 05	N73-13114 *
US-PATENT-CLASS-343-708	c 09	N71-22888 *	US-PATENT-CLASS-343-846	c 33	N76-14372 *	US-PATENT-CLASS-35-29	c 11	N71-16028 *
US-PATENT-CLASS-343-708	c 07	N71-22984 *	US-PATENT-CLASS-343-846	c 32	N82-11336 *	US-PATENT-CLASS-35-29	c 05	N71-28619 *
US-PATENT-CLASS-343-708	c 07	N71-28980 *	US-PATENT-CLASS-343-853	c 07	N72-11148 *	US-PATENT-CLASS-35-35A	c 71	N74-21014 *
US-PATENT-CLASS-343-708	c 09	N72-25247 *	US-PATENT-CLASS-343-853	c 07	N72-22127 *	US-PATENT-CLASS-35-45	c 14	N70-35394 *
US-PATENT-CLASS-343-708	c 32	N74-20864 *	US-PATENT-CLASS-343-853	c 07	N72-25174 *	US-PATENT-CLASS-35-49	c 12	N69-39988 *
US-PATENT-CLASS-343-708	c 32	N82-11336 *	US-PATENT-CLASS-343-853	c 09	N72-31235 *	US-PATENT-CLASS-35-8	c 05	N72-16015 *
US-PATENT-CLASS-343-718	c 09	N71-18720 *	US-PATENT-CLASS-343-853	c 10	N73-16206 *	US-PATENT-CLASS-350-100	c 36	N77-25501 *
US-PATENT-CLASS-343-720	c 09	N72-12136 *	US-PATENT-CLASS-343-853	c 32	N74-20863 *	US-PATENT-CLASS-350-102	c 23	N71-29123 *
US-PATENT-CLASS-343-725	c 07	N73-28013 *	US-PATENT-CLASS-343-853	c 32	N74-20864 *	US-PATENT-CLASS-350-102	c 36	N77-25501 *
US-PATENT-CLASS-343-727	c 32	N81-14187 *	US-PATENT-CLASS-343-854	c 07	N69-27460 *	US-PATENT-CLASS-350-138	c 23	N72-27728 *
US-PATENT-CLASS-343-727	c 32	N82-11336 *	US-PATENT-CLASS-343-854	c 07	N71-27233 *	US-PATENT-CLASS-350-145	c 74	N77-20882 *
US-PATENT-CLASS-343-729	c 07	N73-28013 *	US-PATENT-CLASS-343-854	c 09	N73-19234 *	US-PATENT-CLASS-350-147	c 14	N72-27409 *
US-PATENT-CLASS-343-730	c 32	N74-20863 *	US-PATENT-CLASS-343-854	c 33	N74-20860 *	US-PATENT-CLASS-350-150	c 26	N72-25680 *
US-PATENT-CLASS-343-754	c 09	N73-19234 *	US-PATENT-CLASS-343-854	c 33	N76-27472 *	US-PATENT-CLASS-350-150	c 36	N76-18427 *
US-PATENT-CLASS-343-755	c 33	N76-27472 *	US-PATENT-CLASS-343-854	c 32	N79-11264 *	US-PATENT-CLASS-350-151	c 36	N74-13205 *
US-PATENT-CLASS-343-755	c 32	N81-25278 *	US-PATENT-CLASS-343-854	c 32	N80-28578 *	US-PATENT-CLASS-350-151	c 35	N78-29421 *
US-PATENT-CLASS-343-761	c 33	N75-19516 *	US-PATENT-CLASS-343-872	c 07	N71-28980 *	US-PATENT-CLASS-350-157	c 74	N79-14891 *
US-PATENT-CLASS-343-761	c 32	N76-21365 *	US-PATENT-CLASS-343-873	c 07	N71-19493 *	US-PATENT-CLASS-350-159	c 74	N78-17865 *
US-PATENT-CLASS-343-762	c 07	N72-25174 *	US-PATENT-CLASS-343-873	c 09	N72-25247 *	US-PATENT-CLASS-350-160R	c 14	N72-25410 *
US-PATENT-CLASS-343-768	c 10	N71-26142 *	US-PATENT-CLASS-343-876	c 32	N76-15329 *	US-PATENT-CLASS-350-160R	c 26	N72-25680 *
US-PATENT-CLASS-343-769	c 32	N74-20864 *	US-PATENT-CLASS-343-876	c 32	N85-29118 *	US-PATENT-CLASS-350-160	c 36	N76-18427 *
US-PATENT-CLASS-343-770	c 09	N72-31235 *	US-PATENT-CLASS-343-880	c 07	N73-26117 *	US-PATENT-CLASS-350-161	c 26	N72-27784 *
US-PATENT-CLASS-343-770	c 33	N76-14372 *	US-PATENT-CLASS-343-880	c 18	N80-14183 *	US-PATENT-CLASS-350-161	c 36	N75-31427 *
US-PATENT-CLASS-343-771	c 07	N71-28809 *	US-PATENT-CLASS-343-881	c 37	N86-25789 *	US-PATENT-CLASS-350-162R	c 74	N80-21140 *
US-PATENT-CLASS-343-771	c 07	N72-11148 *	US-PATENT-CLASS-343-882	c 33	N76-32457 *	US-PATENT-CLASS-350-162SF	c 23	N73-30666 *
US-PATENT-CLASS-343-771	c 09	N72-21244 *	US-PATENT-CLASS-343-882	c 37	N86-25789 *	US-PATENT-CLASS-350-162SF	c 74	N76-31998 *
US-PATENT-CLASS-343-771	c 07	N72-22127 *	US-PATENT-CLASS-343-883	c 07	N73-26117 *	US-PATENT-CLASS-350-162SF	c 74	N77-28932 *
US-PATENT-CLASS-343-771	c 09	N72-25247 *	US-PATENT-CLASS-343-883	c 18	N80-14183 *	US-PATENT-CLASS-350-162SF	c 36	N77-32478 *
US-PATENT-CLASS-343-771	c 09	N72-31235 *	US-PATENT-CLASS-343-883	c 37	N86-25791 *	US-PATENT-CLASS-350-162	c 14	N72-17323 *
US-PATENT-CLASS-343-772	c 07	N72-20141 *	US-PATENT-CLASS-343-884	c 07	N71-27191 *	US-PATENT-CLASS-350-165	c 27	N78-31233 *
US-PATENT-CLASS-343-772	c 32	N81-25278 *	US-PATENT-CLASS-343-889	c 07	N73-26117 *	US-PATENT-CLASS-350-166	c 44	N83-34448 *
US-PATENT-CLASS-343-773	c 07	N72-20141 *	US-PATENT-CLASS-343-893	c 09	N72-21244 *	US-PATENT-CLASS-350-168	c 74	N85-23396 *
US-PATENT-CLASS-343-776	c 07	N71-12396 *	US-PATENT-CLASS-343-893	c 07	N73-28013 *	US-PATENT-CLASS-350-16	c 14	N72-22444 *
US-PATENT-CLASS-343-777	c 07	N71-27233 *	US-PATENT-CLASS-343-895	c 09	N73-19234 *	US-PATENT-CLASS-350-170	c 73	N78-32848 *
US-PATENT-CLASS-343-777	c 07	N72-25174 *	US-PATENT-CLASS-343-895	c 07	N73-26117 *	US-PATENT-CLASS-350-170	c 74	N83-10900 *
US-PATENT-CLASS-343-779	c 07	N71-11285 *	US-PATENT-CLASS-343-895	c 32	N80-23524 *	US-PATENT-CLASS-350-171	c 23	N72-23695 *
US-PATENT-CLASS-343-779	c 10	N72-22235 *	US-PATENT-CLASS-343-895	c 32	N82-27558 *	US-PATENT-CLASS-350-171	c 74	N83-17305 *
US-PATENT-CLASS-343-779	c 07	N72-25174 *	US-PATENT-CLASS-343-9PS	c 32	N83-19968 *	US-PATENT-CLASS-350-172	c 74	N84-23248 *
US-PATENT-CLASS-343-779	c 32	N76-15329 *	US-PATENT-CLASS-343-9PS	c 32	N83-31918 *	US-PATENT-CLASS-350-173	c 73	N78-32848 *
US-PATENT-CLASS-343-779	c 33	N76-27472 *	US-PATENT-CLASS-343-9R	c 32	N84-22820 *	US-PATENT-CLASS-350-173	c 74	N83-36898 *
US-PATENT-CLASS-343-781CA	c 32	N78-31321 *	US-PATENT-CLASS-343-909	c 32	N74-11000 *	US-PATENT-CLASS-350-173	c 74	N84-23248 *
US-PATENT-CLASS-343-781P	c 46	N82-12685 *	US-PATENT-CLASS-343-909	c 35	N76-15435 *	US-PATENT-CLASS-350-174	c 74	N77-20882 *
US-PATENT-CLASS-343-781R	c 32	N81-25278 *	US-PATENT-CLASS-343-909	c 33	N79-28416 *	US-PATENT-CLASS-350-174	c 73	N78-32848 *
US-PATENT-CLASS-343-781	c 09	N70-35219 *	US-PATENT-CLASS-343-909	c 32	N80-14281 *	US-PATENT-CLASS-350-175E	c 74	N80-27185 *
US-PATENT-CLASS-343-781	c 09	N70-35382 *	US-PATENT-CLASS-343-912	c 07	N72-21117 *	US-PATENT-CLASS-350-175FS	c 14	N72-25414 *
US-PATENT-CLASS-343-781	c 09	N70-35425 *	US-PATENT-CLASS-343-912	c 07	N72-22127 *	US-PATENT-CLASS-350-175NG	c 27	N78-31233 *
US-PATENT-CLASS-343-781	c 07	N72-32169 *	US-PATENT-CLASS-343-912	c 32	N76-18295 *	US-PATENT-CLASS-350-189	c 23	N71-24857 *
US-PATENT-CLASS-343-781	c 32	N74-11000 *	US-PATENT-CLASS-343-915	c 31	N71-16102 *	US-PATENT-CLASS-350-199	c 14	N73-30393 *
US-PATENT-CLASS-343-781	c 33	N75-19516 *	US-PATENT-CLASS-343-915	c 09	N71-20658 *	US-PATENT-CLASS-350-19	c 14	N72-22441 *
US-PATENT-CLASS-343-781	c 32	N76-21365 *	US-PATENT-CLASS-343-915	c 07	N72-32169 *	US-PATENT-CLASS-350-1	c 23	N69-24332 *
US-PATENT-CLASS-343-782	c 07	N73-14130 *	US-PATENT-CLASS-343-915	c 07	N73-14130 *	US-PATENT-CLASS-350-1	c 07	N71-29065 *
US-PATENT-CLASS-343-782	c 32	N78-31321 *	US-PATENT-CLASS-343-915	c 07	N73-24176 *	US-PATENT-CLASS-350-1	c 16	N72-12440 *
US-PATENT-CLASS-343-784	c 07	N71-28980 *	US-PATENT-CLASS-343-915	c 32	N76-18295 *	US-PATENT-CLASS-350-1	c 24	N76-24363 *
US-PATENT-CLASS-343-786	c 07	N71-15907 *	US-PATENT-CLASS-343-915	c 33	N76-32457 *	US-PATENT-CLASS-350-1	c 74	N78-15879 *
US-PATENT-CLASS-343-786	c 07	N71-22750 *	US-PATENT-CLASS-343-9	c 32	N75-15854 *	US-PATENT-CLASS-350-202	c 23	N73-20741 *

US-PATENT-CLASS-350-202	c 74	N77-28932 *	US-PATENT-CLASS-350-321	c 74	N85-29750 *	US-PATENT-CLASS-356-109	c 16	N73-30476 *
US-PATENT-CLASS-350-203	c 14	N72-25409 *	US-PATENT-CLASS-350-335	c 74	N86-21348 *	US-PATENT-CLASS-356-110	c 14	N73-25463 *
US-PATENT-CLASS-350-204	c 14	N73-30393 *	US-PATENT-CLASS-350-342	c 76	N85-33826 *	US-PATENT-CLASS-356-110	c 35	N78-18391 *
US-PATENT-CLASS-350-204	c 74	N78-17866 *	US-PATENT-CLASS-350-353	c 74	N83-19597 *	US-PATENT-CLASS-356-112	c 72	N74-19310 *
US-PATENT-CLASS-350-211	c 44	N76-14602 *	US-PATENT-CLASS-350-354	c 32	N86-20647 *	US-PATENT-CLASS-356-113	c 14	N72-17323 *
US-PATENT-CLASS-350-213	c 14	N71-15622 *	US-PATENT-CLASS-350-358	c 36	N82-29589 *	US-PATENT-CLASS-356-113	c 35	N74-23040 *
US-PATENT-CLASS-350-226	c 74	N80-27185 *	US-PATENT-CLASS-350-359	c 36	N80-16321 *	US-PATENT-CLASS-356-114	c 14	N73-12446 *
US-PATENT-CLASS-350-236	c 74	N74-15095 *	US-PATENT-CLASS-350-35	c 14	N72-22441 *	US-PATENT-CLASS-356-114	c 35	N76-31490 *
US-PATENT-CLASS-350-23	c 14	N72-22441 *	US-PATENT-CLASS-350-36	c 14	N72-22441 *	US-PATENT-CLASS-356-117	c 23	N71-16101 *
US-PATENT-CLASS-350-253	c 35	N77-27366 *	US-PATENT-CLASS-350-370	c 35	N81-33448 *	US-PATENT-CLASS-356-120	c 74	N78-27904 *
US-PATENT-CLASS-350-25	c 74	N80-21138 *	US-PATENT-CLASS-350-443	c 74	N84-23248 *	US-PATENT-CLASS-356-123	c 74	N76-19935 *
US-PATENT-CLASS-350-269	c 33	N74-20861 *	US-PATENT-CLASS-350-445	c 74	N83-36898 *	US-PATENT-CLASS-356-124	c 74	N76-19935 *
US-PATENT-CLASS-350-26	c 14	N72-22441 *	US-PATENT-CLASS-350-448	c 74	N86-20125 *	US-PATENT-CLASS-356-124	c 74	N79-11865 *
US-PATENT-CLASS-350-270	c 70	N74-21300 *	US-PATENT-CLASS-350-453	c 36	N82-32712 *	US-PATENT-CLASS-356-128	c 76	N87-25862 *
US-PATENT-CLASS-350-275	c 09	N71-19479 *	US-PATENT-CLASS-350-486	c 74	N83-13978 *	US-PATENT-CLASS-356-129	c 74	N79-20856 *
US-PATENT-CLASS-350-276-R	c 74	N86-20125 *	US-PATENT-CLASS-350-49	c 14	N72-22441 *	US-PATENT-CLASS-356-129	c 76	N87-25862 *
US-PATENT-CLASS-350-276R	c 74	N86-28732 *	US-PATENT-CLASS-350-505	c 74	N85-23396 *	US-PATENT-CLASS-356-138	c 14	N72-20379 *
US-PATENT-CLASS-350-285	c 14	N71-15605 *	US-PATENT-CLASS-350-505	c 74	N86-28732 *	US-PATENT-CLASS-356-138	c 16	N73-33397 *
US-PATENT-CLASS-350-285	c 14	N71-17662 *	US-PATENT-CLASS-350-52	c 14	N72-22441 *	US-PATENT-CLASS-356-141	c 14	N72-27409 *
US-PATENT-CLASS-350-285	c 19	N71-26674 *	US-PATENT-CLASS-350-52	c 14	N72-22444 *	US-PATENT-CLASS-356-141	c 14	N73-28490 *
US-PATENT-CLASS-350-285	c 15	N72-11386 *	US-PATENT-CLASS-350-537	c 74	N86-20125 *	US-PATENT-CLASS-356-141	c 36	N74-21091 *
US-PATENT-CLASS-350-285	c 16	N73-33397 *	US-PATENT-CLASS-350-55	c 23	N71-33229 *	US-PATENT-CLASS-356-141	c 89	N74-30886 *
US-PATENT-CLASS-350-285	c 74	N74-15095 *	US-PATENT-CLASS-350-55	c 14	N73-30393 *	US-PATENT-CLASS-356-141	c 74	N77-22951 *
US-PATENT-CLASS-350-285	c 74	N80-21138 *	US-PATENT-CLASS-350-55	c 23	N73-30666 *	US-PATENT-CLASS-356-147	c 89	N74-30886 *
US-PATENT-CLASS-350-286	c 07	N71-29065 *	US-PATENT-CLASS-350-55	c 89	N79-10969 *	US-PATENT-CLASS-356-148	c 16	N73-33397 *
US-PATENT-CLASS-350-286	c 73	N78-32848 *	US-PATENT-CLASS-350-55	c 74	N80-33210 *	US-PATENT-CLASS-356-150	c 15	N71-28740 *
US-PATENT-CLASS-350-286	c 74	N83-10900 *	US-PATENT-CLASS-350-580	c 74	N86-20125 *	US-PATENT-CLASS-356-150	c 74	N80-21138 *
US-PATENT-CLASS-350-287	c 15	N72-11386 *	US-PATENT-CLASS-350-58	c 14	N71-15604 *	US-PATENT-CLASS-356-152	c 15	N71-28740 *
US-PATENT-CLASS-350-287	c 74	N83-13978 *	US-PATENT-CLASS-350-6.5	c 32	N80-24510 *	US-PATENT-CLASS-356-152	c 16	N72-13437 *
US-PATENT-CLASS-350-288	c 23	N71-29123 *	US-PATENT-CLASS-350-6.5	c 74	N87-21679 *	US-PATENT-CLASS-356-152	c 14	N72-20379 *
US-PATENT-CLASS-350-288	c 12	N76-15189 *	US-PATENT-CLASS-350-6.6	c 32	N80-24510 *	US-PATENT-CLASS-356-152	c 14	N72-27409 *
US-PATENT-CLASS-350-288	c 74	N77-28933 *	US-PATENT-CLASS-350-619	c 74	N85-23396 *	US-PATENT-CLASS-356-152	c 14	N73-25462 *
US-PATENT-CLASS-350-288	c 44	N79-11471 *	US-PATENT-CLASS-350-6	c 14	N69-27461 *	US-PATENT-CLASS-356-152	c 36	N74-15145 *
US-PATENT-CLASS-350-288	c 44	N79-24433 *	US-PATENT-CLASS-350-6	c 36	N74-15145 *	US-PATENT-CLASS-356-152	c 36	N74-21091 *
US-PATENT-CLASS-350-292	c 35	N75-12273 *	US-PATENT-CLASS-350-79	c 14	N72-32452 *	US-PATENT-CLASS-356-152	c 74	N74-21304 *
US-PATENT-CLASS-350-292	c 44	N79-14529 *	US-PATENT-CLASS-350-7	c 74	N74-15095 *	US-PATENT-CLASS-356-152	c 74	N77-22951 *
US-PATENT-CLASS-350-292	c 44	N79-24432 *	US-PATENT-CLASS-350-86	c 14	N72-22445 *	US-PATENT-CLASS-356-152	c 74	N80-21138 *
US-PATENT-CLASS-350-293	c 16	N73-16536 *	US-PATENT-CLASS-350-96.10	c 74	N84-11921 *	US-PATENT-CLASS-356-152	c 37	N81-27519 *
US-PATENT-CLASS-350-293	c 12	N76-15189 *	US-PATENT-CLASS-350-96.15	c 74	N84-11921 *	US-PATENT-CLASS-356-153	c 15	N71-28740 *
US-PATENT-CLASS-350-293	c 44	N76-24696 *	US-PATENT-CLASS-350-96.15	c 74	N85-29749 *	US-PATENT-CLASS-356-153	c 23	N71-29125 *
US-PATENT-CLASS-350-293	c 44	N78-10554 *	US-PATENT-CLASS-350-96.16	c 74	N83-29032 *	US-PATENT-CLASS-356-153	c 16	N73-33397 *
US-PATENT-CLASS-350-293	c 44	N79-14529 *	US-PATENT-CLASS-350-96.25	c 33	N81-29342 *	US-PATENT-CLASS-356-153	c 18	N76-14186 *
US-PATENT-CLASS-350-294	c 89	N79-10969 *	US-PATENT-CLASS-350-96R	c 60	N77-14751 *	US-PATENT-CLASS-356-154	c 15	N71-26673 *
US-PATENT-CLASS-350-294	c 44	N79-24432 *	US-PATENT-CLASS-350-96R	c 60	N77-32731 *	US-PATENT-CLASS-356-159	c 36	N78-14380 *
US-PATENT-CLASS-350-294	c 32	N80-24510 *	US-PATENT-CLASS-350-96R	c 60	N78-10709 *	US-PATENT-CLASS-356-160	c 36	N78-14380 *
US-PATENT-CLASS-350-295	c 44	N77-32583 *	US-PATENT-CLASS-350-96WG	c 36	N75-31427 *	US-PATENT-CLASS-356-161	c 26	N73-26751 *
US-PATENT-CLASS-350-295	c 44	N80-14473 *	US-PATENT-CLASS-350-96WG	c 36	N76-18428 *	US-PATENT-CLASS-356-162	c 66	N76-19888 *
US-PATENT-CLASS-350-296	c 44	N79-24432 *	US-PATENT-CLASS-350-96WG	c 36	N76-24553 *	US-PATENT-CLASS-356-165	c 38	N78-17396 *
US-PATENT-CLASS-350-296	c 44	N80-14473 *	US-PATENT-CLASS-350-96	c 07	N71-26291 *	US-PATENT-CLASS-356-166	c 14	N71-23175 *
US-PATENT-CLASS-350-299	c 74	N74-21304 *	US-PATENT-CLASS-351-166	c 74	N78-32854 *	US-PATENT-CLASS-356-167	c 14	N72-11364 *
US-PATENT-CLASS-350-299	c 44	N76-24696 *	US-PATENT-CLASS-351-206	c 52	N87-24874 *	US-PATENT-CLASS-356-167	c 66	N76-19888 *
US-PATENT-CLASS-350-299	c 74	N77-28932 *	US-PATENT-CLASS-351-208	c 52	N87-24874 *	US-PATENT-CLASS-356-167	c 74	N78-27904 *
US-PATENT-CLASS-350-299	c 44	N78-10554 *	US-PATENT-CLASS-351-23	c 05	N73-26072 *	US-PATENT-CLASS-356-169	c 60	N78-10709 *
US-PATENT-CLASS-350-299	c 44	N78-31526 *	US-PATENT-CLASS-351-23	c 52	N76-30793 *	US-PATENT-CLASS-356-171	c 74	N77-22950 *
US-PATENT-CLASS-350-299	c 44	N79-11471 *	US-PATENT-CLASS-351-30	c 05	N73-26072 *	US-PATENT-CLASS-356-172	c 16	N73-33397 *
US-PATENT-CLASS-350-299	c 44	N79-24433 *	US-PATENT-CLASS-351-30	c 52	N76-30793 *	US-PATENT-CLASS-356-172	c 36	N74-21091 *
US-PATENT-CLASS-350-299	c 36	N84-14509 *	US-PATENT-CLASS-351-36	c 05	N73-26072 *	US-PATENT-CLASS-356-172	c 74	N77-22951 *
US-PATENT-CLASS-350-2	c 23	N71-30027 *	US-PATENT-CLASS-351-36	c 52	N76-30793 *	US-PATENT-CLASS-356-17	c 14	N72-21409 *
US-PATENT-CLASS-350-3.5	c 16	N71-15551 *	US-PATENT-CLASS-351-38	c 54	N75-27759 *	US-PATENT-CLASS-356-180	c 35	N74-27860 *
US-PATENT-CLASS-350-3.5	c 16	N71-15565 *	US-PATENT-CLASS-352-169	c 14	N73-14427 *	US-PATENT-CLASS-356-186	c 35	N75-19613 *
US-PATENT-CLASS-350-3.5	c 16	N71-15567 *	US-PATENT-CLASS-352-171	c 35	N82-26628 *	US-PATENT-CLASS-356-188	c 35	N84-33766 *
US-PATENT-CLASS-350-3.5	c 16	N71-26154 *	US-PATENT-CLASS-352-84	c 16	N71-33410 *	US-PATENT-CLASS-356-189	c 35	N75-19613 *
US-PATENT-CLASS-350-3.5	c 16	N71-29131 *	US-PATENT-CLASS-353-54	c 14	N72-18411 *	US-PATENT-CLASS-356-189	c 35	N84-33766 *
US-PATENT-CLASS-350-3.5	c 14	N72-17324 *	US-PATENT-CLASS-353-54	c 34	N74-23066 *	US-PATENT-CLASS-356-18	c 14	N72-21409 *
US-PATENT-CLASS-350-3.5	c 16	N73-30476 *	US-PATENT-CLASS-353-61	c 34	N74-23066 *	US-PATENT-CLASS-356-197	c 37	N74-18123 *
US-PATENT-CLASS-350-3.5	c 35	N74-15146 *	US-PATENT-CLASS-354-118	c 74	N81-17886 *	US-PATENT-CLASS-356-199	c 36	N78-14380 *
US-PATENT-CLASS-350-3.5	c 35	N74-17153 *	US-PATENT-CLASS-354-217	c 35	N82-26628 *	US-PATENT-CLASS-356-1	c 36	N83-34304 *
US-PATENT-CLASS-350-3.5	c 35	N74-26946 *	US-PATENT-CLASS-354-234	c 33	N74-20861 *	US-PATENT-CLASS-356-201	c 75	N74-30156 *
US-PATENT-CLASS-350-3.5	c 35	N75-25124 *	US-PATENT-CLASS-354-234	c 70	N74-21300 *	US-PATENT-CLASS-356-201	c 35	N77-14411 *
US-PATENT-CLASS-350-3.5	c 35	N75-27328 *	US-PATENT-CLASS-354-289	c 35	N82-26628 *	US-PATENT-CLASS-356-202	c 26	N73-26751 *
US-PATENT-CLASS-350-3.5	c 35	N76-18402 *	US-PATENT-CLASS-354-479	c 74	N86-28732 *	US-PATENT-CLASS-356-203	c 14	N71-26788 *
US-PATENT-CLASS-350-3.5	c 35	N78-17357 *	US-PATENT-CLASS-354-62	c 52	N87-24874 *	US-PATENT-CLASS-356-204	c 35	N77-14411 *
US-PATENT-CLASS-350-3.5	c 38	N78-32447 *	US-PATENT-CLASS-354-77	c 74	N79-20856 *	US-PATENT-CLASS-356-204	c 74	N78-17867 *
US-PATENT-CLASS-350-3.73	c 36	N87-23960 *	US-PATENT-CLASS-355-18	c 14	N73-33361 *	US-PATENT-CLASS-356-207	c 45	N76-17656 *
US-PATENT-CLASS-350-3.81	c 36	N87-23960 *	US-PATENT-CLASS-356-103	c 14	N71-28994 *	US-PATENT-CLASS-356-208	c 74	N78-33913 *
US-PATENT-CLASS-350-301	c 74	N81-17886 *	US-PATENT-CLASS-356-103	c 36	N75-15028 *	US-PATENT-CLASS-356-209	c 23	N71-16341 *
US-PATENT-CLASS-350-310	c 11	N69-24321 *	US-PATENT-CLASS-356-103	c 74	N78-13874 *	US-PATENT-CLASS-356-209	c 14	N71-28993 *
US-PATENT-CLASS-350-310	c 23	N71-24868 *	US-PATENT-CLASS-356-104	c 16	N71-24074 *	US-PATENT-CLASS-356-209	c 14	N72-17323 *
US-PATENT-CLASS-350-310	c 23	N71-29123 *	US-PATENT-CLASS-356-106LR	c 36	N75-19653 *	US-PATENT-CLASS-356-210	c 35	N76-31490 *
US-PATENT-CLASS-350-310	c 23	N71-33229 *	US-PATENT-CLASS-356-106R	c 72	N74-19310 *	US-PATENT-CLASS-356-212	c 35	N79-11865 *
US-PATENT-CLASS-350-310	c 23	N72-22673 *	US-PATENT-CLASS-356-106R	c 36	N76-14447 *	US-PATENT-CLASS-356-213	c 39	N81-25400 *
US-PATENT-CLASS-350-311	c 74	N77-28933 *	US-PATENT-CLASS-356-106R	c 35	N77-10493 *	US-PATENT-CLASS-356-216	c 74	N74-15095 *
US-PATENT-CLASS-350-311	c 16	N72-12440 *	US-PATENT-CLASS-356-106R	c 47	N77-10753 *	US-PATENT-CLASS-356-216	c 35	N80-18359 *
US-PATENT-CLASS-350-312	c 74	N85-29750 *	US-PATENT-CLASS-356-106S	c 23	N73-13661 *	US-PATENT-CLASS-356-216	c 39	N81-25400 *
US-PATENT-CLASS-350-315	c 74	N86-29650 *	US-PATENT-CLASS-356-106S	c 35	N76-31490 *	US-PATENT-CLASS-356-216	c 35	N84-22931 *
US-PATENT-CLASS-350-316	c 27	N83-36220 *	US-PATENT-CLASS-356-106S	c 35	N78-18391 *	US-PATENT-CLASS-356-222	c 03	N72-20033 *
US-PATENT-CLASS-350-318	c 74	N86-29650 *	US-PATENT-CLASS-356-106S	c 35	N74-23040 *	US-PATENT-CLASS-356-222	c 47	N83-32232 *
US-PATENT-CLASS-350-319	c 74	N85-29750 *	US-PATENT-CLASS-356-106	c 14	N71-17627 *	US-PATENT-CLASS-356-234	c 39	N81-25400 *
US-PATENT-CLASS-350-319	c 74	N86-20125 *	US-PATENT-CLASS-356-106	c 14	N71-17655 *	US-PATENT-CLASS-356-234	c 35	N84-22931 *
US-PATENT-CLASS-350-319	c 09	N87-14355 *	US-PATENT-CLASS-356-106	c 14	N71-27215 *	US-PATENT-CLASS-356-236	c 74	N77-21941 *
US-PATENT-CLASS-350-320	c 74	N77-28933 *	US-PATENT-CLASS-356-106	c 14	N73-12446 *	US-PATENT-CLASS-356-236	c 74	N86-26190 *
US-PATENT-CLASS-350-320	c 44	N77-32583 *	US-PATENT-CLASS-356-106	c 35	N74-15146 *	US-PATENT-CLASS-356-237	c 74	N77-10899 *
US-PATENT-CLASS-350-320	c 73	N78-32848 *	US-PATENT-CLASS-356-107	c 16	N71-24170 *	US-PATENT-CLASS-356-237	c 38	N78-17395 *
US-PATENT-CLASS-350-320	c 44	N79-14529 *	US-PATENT-CLASS-356-108	c 26	N73-26751 *	US-PATENT-CLASS-356-237	c 38	N78-17396 *
US-PATENT-CLASS-350-320	c 74	N85-29749 *	US-PATENT-CLASS-356-108	c 16	N73-30476 *	US-PATENT-CLASS-356-237	c 35	N79-28527 *

US-PATENT-CLASS-356-239	c 74	N77-10899 *	US-PATENT-CLASS-356-51	c 36	N87-28006 *	US-PATENT-CLASS-357-5	c 33	N78-13320 *
US-PATENT-CLASS-356-241	c 14	N72-32452 *	US-PATENT-CLASS-356-5	c 07	N73-26119 *	US-PATENT-CLASS-357-60	c 33	N81-26360 *
US-PATENT-CLASS-356-243	c 36	N80-16321 *	US-PATENT-CLASS-356-5	c 36	N74-15145 *	US-PATENT-CLASS-357-63	c 33	N76-31409 *
US-PATENT-CLASS-356-244	c 14	N72-17323 *	US-PATENT-CLASS-356-5	c 36	N75-15028 *	US-PATENT-CLASS-357-63	c 33	N81-19558 *
US-PATENT-CLASS-356-244	c 35	N76-31490 *	US-PATENT-CLASS-356-5	c 32	N82-23376 *	US-PATENT-CLASS-357-63	c 44	N82-26777 *
US-PATENT-CLASS-356-244	c 35	N80-28687 *	US-PATENT-CLASS-356-5	c 74	N85-34629 *	US-PATENT-CLASS-357-65	c 44	N78-25527 *
US-PATENT-CLASS-356-244	c 74	N86-26190 *	US-PATENT-CLASS-356-5	c 74	N86-32266 *	US-PATENT-CLASS-357-65	c 44	N79-11467 *
US-PATENT-CLASS-356-246	c 35	N74-27860 *	US-PATENT-CLASS-356-5	c 32	N87-14559 *	US-PATENT-CLASS-357-65	c 44	N79-31752 *
US-PATENT-CLASS-356-246	c 74	N78-17867 *	US-PATENT-CLASS-356-71	c 66	N76-19888 *	US-PATENT-CLASS-357-67	c 44	N78-25527 *
US-PATENT-CLASS-356-246	c 74	N87-14971 *	US-PATENT-CLASS-356-72	c 14	N71-23268 *	US-PATENT-CLASS-357-67	c 44	N79-11467 *
US-PATENT-CLASS-356-248	c 14	N72-22444 *	US-PATENT-CLASS-356-72	c 33	N73-27796 *	US-PATENT-CLASS-357-67	c 44	N79-31752 *
US-PATENT-CLASS-356-256	c 36	N87-28006 *	US-PATENT-CLASS-356-72	c 38	N78-32447 *	US-PATENT-CLASS-357-73	c 33	N78-13320 *
US-PATENT-CLASS-356-28.5	c 32	N80-24510 *	US-PATENT-CLASS-356-72	c 74	N80-33210 *	US-PATENT-CLASS-357-74	c 37	N79-28549 *
US-PATENT-CLASS-356-28.5	c 36	N81-24422 *	US-PATENT-CLASS-356-72	c 35	N86-32697 *	US-PATENT-CLASS-357-79	c 37	N79-28549 *
US-PATENT-CLASS-356-28.5	c 36	N82-32712 *	US-PATENT-CLASS-356-73	c 75	N74-30156 *	US-PATENT-CLASS-357-79	c 37	N79-28549 *
US-PATENT-CLASS-356-28.5	c 35	N86-32697 *	US-PATENT-CLASS-356-73	c 38	N78-32447 *	US-PATENT-CLASS-357-81	c 37	N79-28549 *
US-PATENT-CLASS-356-28.5	c 35	N87-14669 *	US-PATENT-CLASS-356-73	c 35	N84-33766 *	US-PATENT-CLASS-357-81	c 37	N79-28549 *
US-PATENT-CLASS-356-28.5	c 36	N87-17026 *	US-PATENT-CLASS-356-73	c 09	N86-32447 *	US-PATENT-CLASS-357-83	c 37	N79-28549 *
US-PATENT-CLASS-356-28	c 21	N71-19212 *	US-PATENT-CLASS-356-73	c 35	N86-32697 *	US-PATENT-CLASS-357-91	c 76	N75-25730 *
US-PATENT-CLASS-356-28	c 16	N71-24828 *	US-PATENT-CLASS-356-74	c 30	N71-15990 *	US-PATENT-CLASS-357-91	c 33	N78-27326 *
US-PATENT-CLASS-356-28	c 72	N74-19310 *	US-PATENT-CLASS-356-74	c 35	N84-33766 *	US-PATENT-CLASS-357-91	c 44	N80-29835 *
US-PATENT-CLASS-356-28	c 36	N75-15028 *	US-PATENT-CLASS-356-76	c 23	N71-26206 *	US-PATENT-CLASS-357-91	c 33	N81-26360 *
US-PATENT-CLASS-356-28	c 35	N75-16783 *	US-PATENT-CLASS-356-76	c 14	N71-29041 *	US-PATENT-CLASS-357-91	c 44	N86-32875 *
US-PATENT-CLASS-356-28	c 36	N76-14447 *	US-PATENT-CLASS-356-83	c 35	N75-19613 *	US-PATENT-CLASS-358-101	c 37	N86-21850 *
US-PATENT-CLASS-356-28	c 36	N77-25501 *	US-PATENT-CLASS-356-85	c 37	N74-18123 *	US-PATENT-CLASS-358-104	c 09	N78-18083 *
US-PATENT-CLASS-356-28	c 74	N78-17866 *	US-PATENT-CLASS-356-85	c 75	N74-30156 *	US-PATENT-CLASS-358-104	c 74	N79-13855 *
US-PATENT-CLASS-356-28	c 35	N79-18296 *	US-PATENT-CLASS-356-87	c 75	N74-30156 *	US-PATENT-CLASS-358-104	c 36	N83-34304 *
US-PATENT-CLASS-356-28	c 36	N80-16321 *	US-PATENT-CLASS-356-96	c 35	N75-19613 *	US-PATENT-CLASS-358-105	c 39	N83-20280 *
US-PATENT-CLASS-356-28	c 36	N87-17026 *	US-PATENT-CLASS-356-97	c 35	N77-14411 *	US-PATENT-CLASS-358-105	c 74	N86-21348 *
US-PATENT-CLASS-356-300	c 43	N79-17288 *	US-PATENT-CLASS-357-12	c 33	N85-21492 *	US-PATENT-CLASS-358-105	c 17	N87-25348 *
US-PATENT-CLASS-356-301	c 35	N87-14669 *	US-PATENT-CLASS-357-15	c 44	N78-13526 *	US-PATENT-CLASS-358-106	c 39	N78-16387 *
US-PATENT-CLASS-356-311	c 35	N86-25753 *	US-PATENT-CLASS-357-15	c 44	N79-11467 *	US-PATENT-CLASS-358-107	c 35	N79-18296 *
US-PATENT-CLASS-356-318	c 35	N86-25753 *	US-PATENT-CLASS-357-15	c 44	N81-29525 *	US-PATENT-CLASS-358-109	c 32	N79-20297 *
US-PATENT-CLASS-356-323	c 74	N85-23396 *	US-PATENT-CLASS-357-16	c 76	N86-20150 *	US-PATENT-CLASS-358-109	c 33	N81-33403 *
US-PATENT-CLASS-356-328	c 35	N80-26635 *	US-PATENT-CLASS-357-16	c 44	N78-13526 *	US-PATENT-CLASS-358-109	c 43	N82-13465 *
US-PATENT-CLASS-356-32	c 14	N72-11364 *	US-PATENT-CLASS-357-17	c 44	N79-11467 *	US-PATENT-CLASS-358-109	c 36	N83-34304 *
US-PATENT-CLASS-356-32	c 32	N73-20740 *	US-PATENT-CLASS-357-22	c 36	N85-30305 *	US-PATENT-CLASS-358-109	c 32	N85-29117 *
US-PATENT-CLASS-356-32	c 39	N81-25400 *	US-PATENT-CLASS-357-22	c 33	N79-11314 *	US-PATENT-CLASS-358-111	c 52	N79-10724 *
US-PATENT-CLASS-356-330	c 74	N85-23396 *	US-PATENT-CLASS-357-22	c 33	N79-12321 *	US-PATENT-CLASS-358-125	c 74	N84-23247 *
US-PATENT-CLASS-356-331	c 74	N85-23396 *	US-PATENT-CLASS-357-23.12	c 76	N87-13313 *	US-PATENT-CLASS-358-125	c 74	N86-21348 *
US-PATENT-CLASS-356-334	c 74	N80-21140 *	US-PATENT-CLASS-357-23.6	c 76	N87-13313 *	US-PATENT-CLASS-358-133	c 32	N77-24328 *
US-PATENT-CLASS-356-345	c 74	N81-17888 *	US-PATENT-CLASS-357-23	c 33	N86-19516 *	US-PATENT-CLASS-358-133	c 32	N85-29117 *
US-PATENT-CLASS-356-345	c 74	N81-29963 *	US-PATENT-CLASS-357-23	c 76	N75-25730 *	US-PATENT-CLASS-358-133	c 17	N87-25348 *
US-PATENT-CLASS-356-345	c 36	N84-14509 *	US-PATENT-CLASS-357-23	c 33	N79-12321 *	US-PATENT-CLASS-358-138	c 32	N77-24328 *
US-PATENT-CLASS-356-345	c 74	N86-21348 *	US-PATENT-CLASS-357-24	c 33	N81-26360 *	US-PATENT-CLASS-358-138	c 17	N87-25348 *
US-PATENT-CLASS-356-346	c 35	N80-20563 *	US-PATENT-CLASS-357-29	c 33	N75-31331 *	US-PATENT-CLASS-358-142	c 74	N78-14889 *
US-PATENT-CLASS-356-346	c 74	N81-29963 *	US-PATENT-CLASS-357-29	c 76	N75-25730 *	US-PATENT-CLASS-358-161	c 32	N85-21427 *
US-PATENT-CLASS-356-347	c 35	N84-22929 *	US-PATENT-CLASS-357-29	c 35	N84-33765 *	US-PATENT-CLASS-358-168	c 32	N86-20647 *
US-PATENT-CLASS-356-349	c 36	N82-16396 *	US-PATENT-CLASS-357-29	c 76	N87-13313 *	US-PATENT-CLASS-358-174	c 32	N85-21427 *
US-PATENT-CLASS-356-350	c 35	N81-33448 *	US-PATENT-CLASS-357-30	c 44	N76-28635 *	US-PATENT-CLASS-358-213	c 33	N81-33403 *
US-PATENT-CLASS-356-350	c 74	N87-23259 *	US-PATENT-CLASS-357-30	c 44	N78-13526 *	US-PATENT-CLASS-358-213	c 33	N82-24416 *
US-PATENT-CLASS-356-351	c 35	N81-33448 *	US-PATENT-CLASS-357-30	c 44	N78-24609 *	US-PATENT-CLASS-358-217	c 74	N84-23247 *
US-PATENT-CLASS-356-351	c 35	N85-30282 *	US-PATENT-CLASS-357-30	c 44	N78-25527 *	US-PATENT-CLASS-358-219	c 32	N85-21427 *
US-PATENT-CLASS-356-352	c 74	N81-17888 *	US-PATENT-CLASS-357-30	c 44	N79-11467 *	US-PATENT-CLASS-358-222	c 32	N85-21427 *
US-PATENT-CLASS-356-353	c 74	N83-32577 *	US-PATENT-CLASS-357-30	c 44	N79-14528 *	US-PATENT-CLASS-358-225	c 74	N86-28732 *
US-PATENT-CLASS-356-356	c 36	N81-24422 *	US-PATENT-CLASS-357-30	c 44	N79-31752 *	US-PATENT-CLASS-358-226	c 32	N75-21485 *
US-PATENT-CLASS-356-357	c 74	N83-21949 *	US-PATENT-CLASS-357-30	c 44	N80-29835 *	US-PATENT-CLASS-358-44	c 74	N78-17865 *
US-PATENT-CLASS-356-358	c 74	N81-17888 *	US-PATENT-CLASS-357-30	c 44	N81-19558 *	US-PATENT-CLASS-358-44	c 74	N77-18893 *
US-PATENT-CLASS-356-358	c 36	N81-24422 *	US-PATENT-CLASS-357-30	c 44	N81-29525 *	US-PATENT-CLASS-358-55	c 74	N78-17865 *
US-PATENT-CLASS-356-358	c 35	N85-30282 *	US-PATENT-CLASS-357-30	c 44	N82-26777 *	US-PATENT-CLASS-358-81	c 32	N79-20297 *
US-PATENT-CLASS-356-363	c 74	N83-32577 *	US-PATENT-CLASS-357-30	c 44	N82-39079 *	US-PATENT-CLASS-358-88	c 74	N86-21348 *
US-PATENT-CLASS-356-369	c 35	N80-28687 *	US-PATENT-CLASS-357-30	c 44	N82-31764 *	US-PATENT-CLASS-358-96	c 52	N79-10724 *
US-PATENT-CLASS-356-36	c 23	N71-16365 *	US-PATENT-CLASS-357-30	c 44	N83-13579 *	US-PATENT-CLASS-36-119	c 54	N78-17675 *
US-PATENT-CLASS-356-37	c 45	N76-21742 *	US-PATENT-CLASS-357-30	c 44	N83-32177 *	US-PATENT-CLASS-36-92	c 54	N78-17675 *
US-PATENT-CLASS-356-386	c 36	N82-16396 *	US-PATENT-CLASS-357-30	c 35	N84-33765 *	US-PATENT-CLASS-360-101	c 35	N76-16391 *
US-PATENT-CLASS-356-389	c 33	N87-14594 *	US-PATENT-CLASS-357-30	c 33	N85-21427 *	US-PATENT-CLASS-360-10	c 35	N76-16391 *
US-PATENT-CLASS-356-394	c 33	N83-18996 *	US-PATENT-CLASS-357-30	c 44	N85-21768 *	US-PATENT-CLASS-360-25	c 35	N77-17426 *
US-PATENT-CLASS-356-4.5	c 74	N86-21348 *	US-PATENT-CLASS-357-30	c 44	N85-30475 *	US-PATENT-CLASS-360-26	c 33	N76-18353 *
US-PATENT-CLASS-356-4.5	c 74	N86-32266 *	US-PATENT-CLASS-357-30	c 33	N86-19516 *	US-PATENT-CLASS-360-31	c 35	N77-17426 *
US-PATENT-CLASS-356-402	c 74	N86-29650 *	US-PATENT-CLASS-357-30	c 76	N86-20150 *	US-PATENT-CLASS-360-35	c 35	N76-16391 *
US-PATENT-CLASS-356-404	c 35	N79-28527 *	US-PATENT-CLASS-357-30	c 44	N86-32875 *	US-PATENT-CLASS-360-51	c 33	N76-18353 *
US-PATENT-CLASS-356-406	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 76	N87-13313 *	US-PATENT-CLASS-360-9	c 35	N76-16391 *
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US-PATENT-CLASS-41R	c 27	N81-15104 *	US-PATENT-CLASS-416-135	c 37	N78-10468 *	US-PATENT-CLASS-422-169	c 35	N84-17555 *
US-PATENT-CLASS-410-156	c 37	N85-34401 *	US-PATENT-CLASS-416-138	c 05	N77-17029 *	US-PATENT-CLASS-422-178	c 35	N84-17555 *
US-PATENT-CLASS-410-79	c 18	N85-29991 *	US-PATENT-CLASS-416-138	c 05	N79-17847 *	US-PATENT-CLASS-422-186	c 25	N82-28368 *
US-PATENT-CLASS-410-90	c 18	N85-29991 *	US-PATENT-CLASS-416-141	c 05	N77-17029 *	US-PATENT-CLASS-422-186	c 35	N84-17555 *
US-PATENT-CLASS-411-103	c 37	N85-30335 *	US-PATENT-CLASS-416-141	c 37	N78-10468 *	US-PATENT-CLASS-422-186	c 35	N84-17555 *
US-PATENT-CLASS-411-108	c 37	N85-30335 *	US-PATENT-CLASS-416-144	c 35	N78-24515 *	US-PATENT-CLASS-422-198	c 25	N82-28368 *
US-PATENT-CLASS-411-166	c 37	N87-22976 *	US-PATENT-CLASS-416-145	c 05	N85-29947 *	US-PATENT-CLASS-422-199	c 37	N80-10494 *
US-PATENT-CLASS-411-353	c 37	N83-19091 *	US-PATENT-CLASS-416-149	c 02	N72-11018 *	US-PATENT-CLASS-422-199	c 37	N85-21652 *
US-PATENT-CLASS-411-368	c 37	N85-29285 *	US-PATENT-CLASS-416-153	c 07	N77-14025 *	US-PATENT-CLASS-422-200	c 37	N85-21652 *
US-PATENT-CLASS-411-368	c 37	N87-22976 *	US-PATENT-CLASS-416-157B	c 07	N79-14095 *	US-PATENT-CLASS-422-202	c 44	N83-10501 *
US-PATENT-CLASS-411-378	c 37	N85-29285 *	US-PATENT-CLASS-416-158	c 08	N87-23631 *	US-PATENT-CLASS-422-208	c 37	N80-10494 *
US-PATENT-CLASS-411-424	c 37	N87-22976 *	US-PATENT-CLASS-416-160	c 07	N77-14025 *	US-PATENT-CLASS-422-224	c 31	N80-18231 *
US-PATENT-CLASS-411-426	c 37	N85-29285 *	US-PATENT-CLASS-416-160	c 07	N79-14095 *	US-PATENT-CLASS-422-224	c 44	N83-10501 *
US-PATENT-CLASS-411-427	c 37	N87-22976 *	US-PATENT-CLASS-416-162	c 07	N77-14025 *	US-PATENT-CLASS-422-235	c 37	N80-10494 *
US-PATENT-CLASS-411-501	c 37	N85-29285 *	US-PATENT-CLASS-416-162	c 07	N79-14095 *	US-PATENT-CLASS-422-242	c 37	N80-10494 *
US-PATENT-CLASS-411-517	c 37	N83-19091 *	US-PATENT-CLASS-416-165	c 07	N77-14025 *	US-PATENT-CLASS-422-246	c 76	N80-32244 *
US-PATENT-CLASS-411-531	c 37	N85-29285 *	US-PATENT-CLASS-416-167	c 07	N77-14025 *	US-PATENT-CLASS-422-246	c 33	N81-19389 *
US-PATENT-CLASS-411-531	c 37	N87-22976 *	US-PATENT-CLASS-416-167	c 07	N79-14095 *	US-PATENT-CLASS-422-246	c 76	N82-30105 *
US-PATENT-CLASS-414-1	c 37	N80-14398 *	US-PATENT-CLASS-416-190	c 07	N77-32148 *	US-PATENT-CLASS-422-249	c 33	N81-19389 *
US-PATENT-CLASS-414-1	c 37	N81-14320 *	US-PATENT-CLASS-416-193A	c 07	N77-32148 *	US-PATENT-CLASS-422-249	c 76	N84-35113 *
US-PATENT-CLASS-414-1	c 54	N86-28618 *	US-PATENT-CLASS-416-1	c 34	N83-27144 *	US-PATENT-CLASS-422-27	c 54	N81-24724 *
US-PATENT-CLASS-414-217	c 37	N85-29286 *	US-PATENT-CLASS-416-200	c 02	N72-11018 *	US-PATENT-CLASS-422-30	c 54	N81-24724 *
US-PATENT-CLASS-414-222	c 37	N82-32731 *	US-PATENT-CLASS-416-214A	c 07	N78-33101 *	US-PATENT-CLASS-422-34	c 54	N81-24724 *
US-PATENT-CLASS-414-226	c 37	N82-32731 *	US-PATENT-CLASS-416-220R	c 07	N77-27116 *	US-PATENT-CLASS-422-3	c 54	N81-24724 *
US-PATENT-CLASS-414-288	c 85	N85-34722 *	US-PATENT-CLASS-416-220R	c 37	N78-10468 *	US-PATENT-CLASS-422-40	c 35	N82-11432 *
US-PATENT-CLASS-414-328	c 85	N85-34722 *	US-PATENT-CLASS-416-221	c 07	N77-27116 *	US-PATENT-CLASS-422-41	c 52	N79-14749 *
US-PATENT-CLASS-414-373	c 85	N85-34722 *	US-PATENT-CLASS-416-223R	c 02	N84-11136 *	US-PATENT-CLASS-422-48	c 52	N79-14749 *
US-PATENT-CLASS-414-4	c 37	N79-28551 *	US-PATENT-CLASS-416-223R	c 02	N84-28732 *	US-PATENT-CLASS-422-52	c 51	N80-16714 *
US-PATENT-CLASS-414-4	c 54	N81-26718 *	US-PATENT-CLASS-416-223	c 07	N74-28226 *	US-PATENT-CLASS-422-52	c 51	N83-27569 *
US-PATENT-CLASS-414-4	c 37	N86-20789 *	US-PATENT-CLASS-416-224	c 24	N77-19170 *	US-PATENT-CLASS-422-68	c 51	N80-27067 *
US-PATENT-CLASS-414-5	c 54	N86-28618 *	US-PATENT-CLASS-416-224	c 07	N84-22560 *	US-PATENT-CLASS-422-78	c 25	N86-19413 *
US-PATENT-CLASS-414-6	c 54	N79-24652 *	US-PATENT-CLASS-416-228	c 05	N80-14107 *	US-PATENT-CLASS-422-80	c 25	N82-12166 *
US-PATENT-CLASS-414-718	c 37	N86-20789 *	US-PATENT-CLASS-416-230	c 24	N77-19170 *	US-PATENT-CLASS-422-86	c 35	N85-29213 *
US-PATENT-CLASS-414-730	c 37	N81-27519 *	US-PATENT-CLASS-416-233	c 07	N84-22560 *	US-PATENT-CLASS-422-88	c 35	N85-29213 *
US-PATENT-CLASS-414-730	c 37	N86-19603 *	US-PATENT-CLASS-416-237	c 07	N74-28226 *	US-PATENT-CLASS-422-9	c 45	N80-14579 *
US-PATENT-CLASS-414-735	c 54	N81-26718 *	US-PATENT-CLASS-416-238	c 05	N80-14107 *	US-PATENT-CLASS-423-DIG.10	c 24	N84-22695 *
US-PATENT-CLASS-414-739	c 37	N82-32731 *	US-PATENT-CLASS-416-23	c 05	N85-29947 *	US-PATENT-CLASS-423-DIG.10	c 31	N85-20153 *
US-PATENT-CLASS-414-744A	c 54	N81-26718 *	US-PATENT-CLASS-416-241A	c 07	N77-32148 *	US-PATENT-CLASS-423-131	c 28	N81-15119 *
US-PATENT-CLASS-414-753	c 37	N86-20789 *	US-PATENT-CLASS-416-241R	c 26	N84-33555 *	US-PATENT-CLASS-423-149	c 26	N80-14229 *
US-PATENT-CLASS-414-786	c 85	N85-34722 *	US-PATENT-CLASS-416-242	c 02	N84-11136 *	US-PATENT-CLASS-423-1	c 28	N74-12813 *
US-PATENT-CLASS-414-7	c 54	N86-28618 *	US-PATENT-CLASS-416-242	c 02	N84-28732 *	US-PATENT-CLASS-423-231	c 25	N82-28368 *
US-PATENT-CLASS-414-7	c 54	N86-28620 *	US-PATENT-CLASS-416-244A	c 07	N78-33101 *	US-PATENT-CLASS-423-242	c 45	N79-12584 *
US-PATENT-CLASS-414-8	c 54	N86-28618 *	US-PATENT-CLASS-416-248	c 37	N78-10468 *	US-PATENT-CLASS-423-249	c 25	N76-27383 *
US-PATENT-CLASS-415-DIG.8	c 44	N82-24639 *	US-PATENT-CLASS-416-25	c 05	N75-12930 *	US-PATENT-CLASS-423-276	c 23	N87-23698 *
US-PATENT-CLASS-415-DIG.8	c 44	N84-23018 *	US-PATENT-CLASS-416-2	c 44	N79-14527 *	US-PATENT-CLASS-423-284	c 23	N87-23698 *
US-PATENT-CLASS-415-101	c 44	N80-21828 *	US-PATENT-CLASS-416-500	c 05	N81-19087 *	US-PATENT-CLASS-423-293	c 26	N80-14229 *
US-PATENT-CLASS-415-115	c 07	N79-10057 *	US-PATENT-CLASS-416-500	c 05	N85-29947 *	US-PATENT-CLASS-423-303	c 44	N84-23019 *
US-PATENT-CLASS-415-115	c 34	N83-27144 *	US-PATENT-CLASS-416-51	c 05	N79-17847 *	US-PATENT-CLASS-423-33-5	c 25	N79-28253 *
US-PATENT-CLASS-415-115	c 07	N84-33410 *	US-PATENT-CLASS-416-61	c 35	N78-24515 *	US-PATENT-CLASS-423-338	c 76	N87-29360 *
US-PATENT-CLASS-415-115	c 34	N85-33433 *	US-PATENT-CLASS-416-61	c 37	N79-14382 *	US-PATENT-CLASS-423-339	c 76	N87-29360 *
US-PATENT-CLASS-415-116	c 07	N79-10057 *	US-PATENT-CLASS-416-61	c 05	N79-17847 *	US-PATENT-CLASS-423-345	c 76	N76-25049 *
US-PATENT-CLASS-415-118	c 35	N83-35338 *	US-PATENT-CLASS-416-89	c 05	N79-17847 *	US-PATENT-CLASS-423-346	c 76	N79-23798 *
US-PATENT-CLASS-415-143	c 34	N79-20335 *	US-PATENT-CLASS-416-92	c 07	N84-22560 *	US-PATENT-CLASS-423-348	c 26	N80-14229 *
US-PATENT-CLASS-415-145	c 07	N77-28118 *	US-PATENT-CLASS-416-97A	c 34	N85-33433 *	US-PATENT-CLASS-423-350	c 37	N80-10494 *
US-PATENT-CLASS-415-145	c 07	N82-32366 *	US-PATENT-CLASS-416-97R	c 34	N83-27144 *	US-PATENT-CLASS-423-352	c 36	N76-18427 *
US-PATENT-CLASS-415-174	c 37	N79-18318 *	US-PATENT-CLASS-416-97R	c 07	N84-22560 *	US-PATENT-CLASS-423-407	c 24	N76-14203 *
US-PATENT-CLASS-415-174	c 37	N80-26658 *	US-PATENT-CLASS-417-138	c 35	N75-19611 *	US-PATENT-CLASS-423-414	c 24	N84-22695 *
US-PATENT-CLASS-415-174	c 37	N82-19540 *	US-PATENT-CLASS-417-141	c 44	N76-29701 *	US-PATENT-CLASS-423-414	c 31	N85-20153 *
US-PATENT-CLASS-415-174	c 27	N82-29453 *	US-PATENT-CLASS-417-152	c 15	N72-22489 *	US-PATENT-CLASS-423-417	c 26	N80-14229 *
US-PATENT-CLASS-415-174	c 18	N83-20996 *	US-PATENT-CLASS-417-159	c 09	N84-27749 *	US-PATENT-CLASS-423-419P	c 25	N83-33977 *
US-PATENT-CLASS-415-174	c 37	N84-22957 *	US-PATENT-CLASS-417-15	c 37	N83-26078 *	US-PATENT-CLASS-423-445	c 24	N84-22695 *
US-PATENT-CLASS-415-174	c 37	N86-20788 *	US-PATENT-CLASS-417-207	c 44	N76-29701 *	US-PATENT-CLASS-423-445	c 31	N85-20153 *
US-PATENT-CLASS-415-175	c 07	N83-31603 *	US-PATENT-CLASS-417-209	c 34	N76-17317 *	US-PATENT-CLASS-423-446	c 15	N73-19457 *
US-PATENT-CLASS-415-178	c 07	N82-32366 *	US-PATENT-CLASS-417-209	c 44	N76-29701 *	US-PATENT-CLASS-423-446	c 24	N84-22695 *
US-PATENT-CLASS-415-178	c 07	N83-31603 *	US-PATENT-CLASS-417-225	c 35	N78-10428 *	US-PATENT-CLASS-423-446	c 31	N85-20153 *
US-PATENT-CLASS-415-180	c 07	N77-23106 *	US-PATENT-CLASS-417-328	c 37	N84-28081 *	US-PATENT-CLASS-423-447.2	c 24	N83-25789 *
US-PATENT-CLASS-415-180	c 37	N78-10467 *	US-PATENT-CLASS-417-36	c 35	N75-19611 *	US-PATENT-CLASS-423-447.6	c 24	N83-25789 *
US-PATENT-CLASS-415-181	c 07	N74-28226 *	US-PATENT-CLASS-417-379	c 44	N76-29701 *	US-PATENT-CLASS-423-447.7	c 24	N83-25789 *
US-PATENT-CLASS-415-181	c 07	N74-31270 *	US-PATENT-CLASS-417-383	c 37	N80-31790 *	US-PATENT-CLASS-423-449	c 24	N84-22695 *
US-PATENT-CLASS-415-196	c 37	N80-26658 *	US-PATENT-CLASS-417-391	c 15	N73-24513 *	US-PATENT-CLASS-423-449	c 31	N85-20153 *
US-PATENT-CLASS-415-196	c 37	N82-19540 *	US-PATENT-CLASS-417-392	c 37	N84-28081 *	US-PATENT-CLASS-423-449	c 24	N85-21267 *
US-PATENT-CLASS-415-197	c 18	N83-20996 *	US-PATENT-CLASS-417-395	c 35	N75-19611 *	US-PATENT-CLASS-423-449	c 24	N83-25789 *
US-PATENT-CLASS-415-199	c 05	N80-14107 *	US-PATENT-CLASS-417-399	c 44	N83-14693 *	US-PATENT-CLASS-423-449	c 24	N85-21267 *
US-PATENT-CLASS-415-1	c 34	N79-20335 *	US-PATENT-CLASS-417-417	c 44	N83-28574 *	US-PATENT-CLASS-423-539	c 25	N82-28368 *
US-PATENT-CLASS-415-1	c 07	N83-31603 *	US-PATENT-CLASS-417-417	c 31	N85-21404 *	US-PATENT-CLASS-423-540	c 25	N82-28368 *
US-PATENT-CLASS-415-1	c 37	N85-29282 *	US-PATENT-CLASS-417-462	c 37	N84-28081 *	US-PATENT-CLASS-423-542	c 25	N82-28368 *
US-PATENT-CLASS-415-2R	c 44	N82-24639 *	US-PATENT-CLASS-417-470	c 35	N74-15126 *	US-PATENT-CLASS-423-579	c 46	N74-13011 *
US-PATENT-CLASS-415-2R	c 44	N84-23018 *	US-PATENT-CLASS-417-471	c 35	N74-15126 *	US-PATENT-CLASS-423-579	c 25	N82-28368 *
US-PATENT-CLASS-415-200	c 07	N79-14096 *	US-PATENT-CLASS-417-475	c 37	N86-32738 *	US-PATENT-CLASS-423-581	c 25	N79-10162 *
US-PATENT-CLASS-415-200	c 37	N79-18318 *	US-PATENT-CLASS-417-488	c 31	N85-21404 *	US-PATENT-CLASS-423-582	c 26	N78-32229 *
US-PATENT-CLASS-415-201	c 07	N79-14096 *	US-PATENT-CLASS-417-50	c 15	N71-27084 *	US-PATENT-CLASS-423-583	c 26	N78-32229 *
US-PATENT-CLASS-415-2	c 44	N80-21828 *	US-PATENT-CLASS-417-52	c 37	N74-27904 *	US-PATENT-CLASS-423-600	c 25	N83-33977 *
US-PATENT-CLASS-415-47	c 07	N83-31603 *	US-PATENT-CLASS-417-88	c 44	N78-32539 *	US-PATENT-CLASS-423-625	c 15	N73-19457 *
US-PATENT-CLASS-415-68	c 37	N85-29282 *	US-PATENT-CLASS-418-113	c 37	N82-16408 *	US-PATENT-CLASS-423-625	c 26	N80-14229 *
US-PATENT-CLASS-415-9	c 44	N79-14527 *	US-PATENT-CLASS-418-142	c 37	N82-16408 *	US-PATENT-CLASS-423-644	c 36	N76-18427 *
US-PATENT-CLASS-416-104	c 05	N77-17029 *	US-PATENT-CLASS-42-1F	c 11	N72-22247 *	US-PATENT-CLASS-423-648R	c 44	N77-22607 *
US-PATENT-CLASS-416-114	c 05	N81-19087 *	US-PATENT-CLASS-42-101	c 44	N86-25874 *			
US-PATENT-CLASS-416-114	c 08	N87-23631 *	US-PATENT-CLASS-42-215	c 44	N76-29704 *			
US-PATENT-CLASS-416-115	c 02	N72-11018 *	US-PATENT-CLASS-420-445	c 26	N82-31505 *			
US-PATENT-CLASS-416-117	c 37	N84-12493 *	US-PATENT-CLASS-420-460	c 26	N87-14482 *			

US-PATENT-CLASS-423-648R	c 28	N78-24365 *	US-PATENT-CLASS-427-248.1	c 27	N86-19458 *	US-PATENT-CLASS-427-405	c 27	N82-28441 *
US-PATENT-CLASS-423-648R	c 28	N80-20402 *	US-PATENT-CLASS-427-248E	c 37	N78-13436 *	US-PATENT-CLASS-427-405	c 27	N83-31855 *
US-PATENT-CLASS-423-648R	c 28	N81-14103 *	US-PATENT-CLASS-427-248J	c 44	N78-24609 *	US-PATENT-CLASS-427-405	c 26	N84-27855 *
US-PATENT-CLASS-423-648R	c 25	N82-28368 *	US-PATENT-CLASS-427-248	c 44	N76-28635 *	US-PATENT-CLASS-427-407.1	c 27	N83-34039 *
US-PATENT-CLASS-423-648R	c 25	N83-29324 *	US-PATENT-CLASS-427-249	c 44	N76-28635 *	US-PATENT-CLASS-427-40	c 27	N78-31233 *
US-PATENT-CLASS-423-649	c 25	N83-29324 *	US-PATENT-CLASS-427-249	c 44	N78-24609 *	US-PATENT-CLASS-427-40	c 27	N79-18052 *
US-PATENT-CLASS-423-650	c 44	N76-18642 *	US-PATENT-CLASS-427-250	c 12	N76-15189 *	US-PATENT-CLASS-427-40	c 27	N80-24437 *
US-PATENT-CLASS-423-650	c 44	N76-29700 *	US-PATENT-CLASS-427-250	c 44	N76-28635 *	US-PATENT-CLASS-427-419.2	c 26	N83-31795 *
US-PATENT-CLASS-423-650	c 44	N76-29704 *	US-PATENT-CLASS-427-250	c 37	N78-13436 *	US-PATENT-CLASS-427-419.2	c 26	N84-27855 *
US-PATENT-CLASS-423-650	c 44	N77-10636 *	US-PATENT-CLASS-427-253	c 27	N82-28441 *	US-PATENT-CLASS-427-419A	c 34	N78-18355 *
US-PATENT-CLASS-423-650	c 28	N80-10374 *	US-PATENT-CLASS-427-255	c 37	N78-13436 *	US-PATENT-CLASS-427-41	c 27	N78-31233 *
US-PATENT-CLASS-423-658.5	c 28	N81-15119 *	US-PATENT-CLASS-427-261	c 44	N78-25527 *	US-PATENT-CLASS-427-41	c 74	N78-32854 *
US-PATENT-CLASS-424-12	c 25	N79-14169 *	US-PATENT-CLASS-427-261	c 44	N79-11472 *	US-PATENT-CLASS-427-41	c 27	N79-14214 *
US-PATENT-CLASS-424-12	c 51	N80-16715 *	US-PATENT-CLASS-427-270	c 27	N76-16229 *	US-PATENT-CLASS-427-41	c 27	N79-18052 *
US-PATENT-CLASS-424-156	c 25	N83-33977 *	US-PATENT-CLASS-427-275	c 27	N76-16229 *	US-PATENT-CLASS-427-41	c 27	N80-23452 *
US-PATENT-CLASS-424-180	c 52	N75-15270 *	US-PATENT-CLASS-427-287	c 27	N76-16229 *	US-PATENT-CLASS-427-421	c 71	N84-16940 *
US-PATENT-CLASS-424-247	c 52	N81-29764 *	US-PATENT-CLASS-427-292	c 24	N79-17916 *	US-PATENT-CLASS-427-421	c 26	N86-32550 *
US-PATENT-CLASS-424-267	c 52	N81-29764 *	US-PATENT-CLASS-427-292	c 24	N83-13172 *	US-PATENT-CLASS-427-422	c 24	N85-30027 *
US-PATENT-CLASS-424-274	c 52	N81-14613 *	US-PATENT-CLASS-427-294	c 27	N79-14214 *	US-PATENT-CLASS-427-423	c 34	N78-18355 *
US-PATENT-CLASS-424-274	c 52	N81-29764 *	US-PATENT-CLASS-427-294	c 26	N85-35267 *	US-PATENT-CLASS-427-423	c 27	N82-29453 *
US-PATENT-CLASS-424-3	c 51	N77-27677 *	US-PATENT-CLASS-427-296	c 26	N84-22734 *	US-PATENT-CLASS-427-423	c 27	N83-31855 *
US-PATENT-CLASS-425-DIG.43	c 31	N75-13111 *	US-PATENT-CLASS-427-302	c 74	N78-32854 *	US-PATENT-CLASS-427-423	c 31	N83-35177 *
US-PATENT-CLASS-425-10	c 31	N83-35176 *	US-PATENT-CLASS-427-302	c 24	N83-13172 *	US-PATENT-CLASS-427-423	c 37	N84-22957 *
US-PATENT-CLASS-425-113	c 15	N73-13464 *	US-PATENT-CLASS-427-306	c 26	N84-22734 *	US-PATENT-CLASS-427-425	c 37	N82-24492 *
US-PATENT-CLASS-425-128	c 31	N74-32920 *	US-PATENT-CLASS-427-318	c 26	N83-31795 *	US-PATENT-CLASS-427-426	c 27	N76-15310 *
US-PATENT-CLASS-425-133	c 15	N73-13464 *	US-PATENT-CLASS-427-322	c 34	N77-18382 *	US-PATENT-CLASS-427-426	c 71	N84-16940 *
US-PATENT-CLASS-425-176	c 15	N73-13464 *	US-PATENT-CLASS-427-322	c 74	N78-32854 *	US-PATENT-CLASS-427-427	c 24	N78-24290 *
US-PATENT-CLASS-425-288	c 31	N74-32917 *	US-PATENT-CLASS-427-322	c 27	N83-34039 *	US-PATENT-CLASS-427-427	c 26	N86-32550 *
US-PATENT-CLASS-425-35	c 31	N74-32917 *	US-PATENT-CLASS-427-327	c 24	N79-17916 *	US-PATENT-CLASS-427-429	c 27	N81-14078 *
US-PATENT-CLASS-425-378R	c 31	N81-15154 *	US-PATENT-CLASS-427-328	c 24	N79-17916 *	US-PATENT-CLASS-427-436	c 33	N84-16456 *
US-PATENT-CLASS-425-405R	c 31	N75-13111 *	US-PATENT-CLASS-427-340	c 27	N83-34039 *	US-PATENT-CLASS-427-437	c 33	N84-16456 *
US-PATENT-CLASS-425-415	c 31	N74-32920 *	US-PATENT-CLASS-427-343	c 44	N79-11472 *	US-PATENT-CLASS-427-443.2	c 25	N84-12262 *
US-PATENT-CLASS-425-438	c 31	N75-13111 *	US-PATENT-CLASS-427-346	c 71	N84-16940 *	US-PATENT-CLASS-427-443	c 44	N84-28205 *
US-PATENT-CLASS-425-468	c 31	N75-13111 *	US-PATENT-CLASS-427-34	c 34	N78-18355 *	US-PATENT-CLASS-427-444	c 74	N78-32854 *
US-PATENT-CLASS-425-6	c 31	N81-33319 *	US-PATENT-CLASS-427-34	c 24	N79-17916 *	US-PATENT-CLASS-427-444	c 27	N80-32516 *
US-PATENT-CLASS-425-6	c 27	N82-28442 *	US-PATENT-CLASS-427-34	c 27	N82-29453 *	US-PATENT-CLASS-427-47	c 44	N77-32583 *
US-PATENT-CLASS-425-6	c 31	N83-31896 *	US-PATENT-CLASS-427-34	c 27	N83-31855 *	US-PATENT-CLASS-427-47	c 26	N85-29005 *
US-PATENT-CLASS-425-6	c 31	N83-35176 *	US-PATENT-CLASS-427-34	c 31	N83-35177 *	US-PATENT-CLASS-427-4	c 51	N77-27677 *
US-PATENT-CLASS-425-6	c 71	N84-28568 *	US-PATENT-CLASS-427-34	c 37	N84-22957 *	US-PATENT-CLASS-427-53.1	c 36	N84-22944 *
US-PATENT-CLASS-425-6	c 26	N86-32551 *	US-PATENT-CLASS-427-350	c 26	N84-27855 *	US-PATENT-CLASS-427-53.1	c 37	N84-22957 *
US-PATENT-CLASS-425-77	c 15	N72-20446 *	US-PATENT-CLASS-427-352	c 27	N79-25142 *	US-PATENT-CLASS-427-531	c 44	N82-28780 *
US-PATENT-CLASS-425-7	c 31	N83-35176 *	US-PATENT-CLASS-427-355	c 27	N83-34039 *	US-PATENT-CLASS-427-57	c 71	N84-16940 *
US-PATENT-CLASS-427-113	c 44	N76-28635 *	US-PATENT-CLASS-427-372.2	c 24	N79-17916 *	US-PATENT-CLASS-427-58	c 33	N84-16456 *
US-PATENT-CLASS-427-113	c 44	N78-24609 *	US-PATENT-CLASS-427-372.2	c 27	N82-33520 *	US-PATENT-CLASS-427-6	c 71	N84-16940 *
US-PATENT-CLASS-427-113	c 44	N84-28205 *	US-PATENT-CLASS-427-372.2	c 44	N84-28205 *	US-PATENT-CLASS-427-74	c 44	N82-28780 *
US-PATENT-CLASS-427-115	c 25	N82-21268 *	US-PATENT-CLASS-427-372.2	c 24	N79-25142 *	US-PATENT-CLASS-427-75	c 44	N78-25527 *
US-PATENT-CLASS-427-115	c 26	N84-22734 *	US-PATENT-CLASS-427-376.2	c 26	N85-35267 *	US-PATENT-CLASS-427-75	c 44	N79-11468 *
US-PATENT-CLASS-427-115	c 44	N84-28205 *	US-PATENT-CLASS-427-376.6	c 33	N84-16456 *	US-PATENT-CLASS-427-75	c 44	N79-11472 *
US-PATENT-CLASS-427-123	c 44	N79-11472 *	US-PATENT-CLASS-427-376.7	c 33	N84-16456 *	US-PATENT-CLASS-427-75	c 33	N84-16456 *
US-PATENT-CLASS-427-124	c 37	N78-13436 *	US-PATENT-CLASS-427-376A	c 27	N78-32260 *	US-PATENT-CLASS-427-84	c 44	N79-11472 *
US-PATENT-CLASS-427-125	c 26	N84-22734 *	US-PATENT-CLASS-427-376B	c 27	N78-32260 *	US-PATENT-CLASS-427-85	c 44	N85-20530 *
US-PATENT-CLASS-427-125	c 44	N84-28205 *	US-PATENT-CLASS-427-376B	c 24	N79-17916 *	US-PATENT-CLASS-427-86	c 44	N78-28635 *
US-PATENT-CLASS-427-126.6	c 26	N84-22734 *	US-PATENT-CLASS-427-376C	c 24	N79-17916 *	US-PATENT-CLASS-427-86	c 44	N78-24609 *
US-PATENT-CLASS-427-126	c 37	N78-13436 *	US-PATENT-CLASS-427-376	c 27	N76-22377 *	US-PATENT-CLASS-427-88	c 44	N79-31752 *
US-PATENT-CLASS-427-126	c 44	N79-11472 *	US-PATENT-CLASS-427-376	c 27	N76-23426 *	US-PATENT-CLASS-427-88	c 44	N83-13579 *
US-PATENT-CLASS-427-130	c 44	N77-32583 *	US-PATENT-CLASS-427-379	c 27	N76-22377 *	US-PATENT-CLASS-427-88	c 33	N84-16456 *
US-PATENT-CLASS-427-140	c 27	N82-33520 *	US-PATENT-CLASS-427-379	c 27	N76-23426 *	US-PATENT-CLASS-427-89	c 44	N83-13579 *
US-PATENT-CLASS-427-140	c 24	N83-13172 *	US-PATENT-CLASS-427-379	c 27	N78-32260 *	US-PATENT-CLASS-427-90	c 44	N83-13579 *
US-PATENT-CLASS-427-160	c 34	N77-18382 *	US-PATENT-CLASS-427-379	c 27	N81-19296 *	US-PATENT-CLASS-427-91	c 44	N79-28253 *
US-PATENT-CLASS-427-160	c 44	N78-19599 *	US-PATENT-CLASS-427-379	c 24	N83-13171 *	US-PATENT-CLASS-427-95	c 25	N83-13579 *
US-PATENT-CLASS-427-162	c 12	N76-15189 *	US-PATENT-CLASS-427-379	c 24	N83-13172 *	US-PATENT-CLASS-427-96	c 33	N84-16456 *
US-PATENT-CLASS-427-162	c 27	N86-31727 *	US-PATENT-CLASS-427-379	c 44	N84-28205 *	US-PATENT-CLASS-427-109	c 27	N76-14264 *
US-PATENT-CLASS-427-164	c 27	N78-14164 *	US-PATENT-CLASS-427-37	c 24	N85-30027 *	US-PATENT-CLASS-428-109	c 33	N79-12331 *
US-PATENT-CLASS-427-164	c 27	N78-31233 *	US-PATENT-CLASS-427-380	c 27	N76-22377 *	US-PATENT-CLASS-428-113	c 24	N81-14000 *
US-PATENT-CLASS-427-164	c 74	N78-32854 *	US-PATENT-CLASS-427-380	c 27	N76-23426 *	US-PATENT-CLASS-428-114	c 24	N81-13999 *
US-PATENT-CLASS-427-164	c 27	N80-24437 *	US-PATENT-CLASS-427-380	c 27	N78-32260 *	US-PATENT-CLASS-428-114	c 24	N81-14000 *
US-PATENT-CLASS-427-164	c 27	N86-31727 *	US-PATENT-CLASS-427-380	c 44	N84-28205 *	US-PATENT-CLASS-428-116	c 24	N78-10214 *
US-PATENT-CLASS-427-165	c 27	N86-31727 *	US-PATENT-CLASS-427-380	c 26	N85-35267 *	US-PATENT-CLASS-428-116	c 24	N78-17149 *
US-PATENT-CLASS-427-178	c 24	N85-30027 *	US-PATENT-CLASS-427-384	c 24	N83-13171 *	US-PATENT-CLASS-428-116	c 24	N86-28131 *
US-PATENT-CLASS-427-191	c 26	N85-35267 *	US-PATENT-CLASS-427-384	c 24	N83-13172 *	US-PATENT-CLASS-428-117	c 37	N76-24575 *
US-PATENT-CLASS-427-191	c 26	N86-32550 *	US-PATENT-CLASS-427-385.5	c 27	N81-14078 *	US-PATENT-CLASS-428-117	c 24	N78-15180 *
US-PATENT-CLASS-427-192	c 26	N86-32550 *	US-PATENT-CLASS-427-385.5	c 27	N86-20561 *	US-PATENT-CLASS-428-117	c 24	N79-16915 *
US-PATENT-CLASS-427-196	c 27	N76-15310 *	US-PATENT-CLASS-427-385B	c 44	N78-25530 *	US-PATENT-CLASS-428-119	c 24	N79-16915 *
US-PATENT-CLASS-427-203	c 27	N76-16229 *	US-PATENT-CLASS-427-385C	c 44	N78-25530 *	US-PATENT-CLASS-428-133	c 37	N79-10422 *
US-PATENT-CLASS-427-204	c 27	N76-16229 *	US-PATENT-CLASS-427-386	c 24	N78-27180 *	US-PATENT-CLASS-428-137	c 24	N79-25142 *
US-PATENT-CLASS-427-205	c 27	N76-16229 *	US-PATENT-CLASS-427-387	c 74	N78-32854 *	US-PATENT-CLASS-428-138	c 24	N78-10214 *
US-PATENT-CLASS-427-205	c 27	N82-28441 *	US-PATENT-CLASS-427-387	c 24	N83-13171 *	US-PATENT-CLASS-428-139	c 23	N81-29160 *
US-PATENT-CLASS-427-215	c 27	N78-32260 *	US-PATENT-CLASS-427-387	c 24	N83-13172 *	US-PATENT-CLASS-428-140	c 24	N81-14000 *
US-PATENT-CLASS-427-215	c 24	N83-33950 *	US-PATENT-CLASS-427-388.1	c 27	N86-20561 *	US-PATENT-CLASS-428-141	c 24	N77-28225 *
US-PATENT-CLASS-427-216	c 33	N84-16456 *	US-PATENT-CLASS-427-388A	c 24	N78-27180 *	US-PATENT-CLASS-428-141	c 27	N82-28440 *
US-PATENT-CLASS-427-217	c 33	N84-16456 *	US-PATENT-CLASS-427-38	c 74	N78-32854 *	US-PATENT-CLASS-428-141	c 27	N82-35251 *
US-PATENT-CLASS-427-219.2	c 27	N83-31855 *	US-PATENT-CLASS-427-38	c 27	N80-24437 *	US-PATENT-CLASS-428-155	c 37	N84-22957 *
US-PATENT-CLASS-427-221	c 27	N81-19296 *	US-PATENT-CLASS-427-38	c 26	N85-29005 *	US-PATENT-CLASS-428-161	c 24	N77-28225 *
US-PATENT-CLASS-427-226	c 33	N84-16456 *	US-PATENT-CLASS-427-38	c 27	N86-19458 *	US-PATENT-CLASS-428-182	c 18	N84-33450 *
US-PATENT-CLASS-427-226	c 44	N84-28205 *	US-PATENT-CLASS-427-393.3	c 27	N82-16238 *	US-PATENT-CLASS-428-184	c 18	N84-33450 *
US-PATENT-CLASS-427-228	c 26	N85-35267 *	US-PATENT-CLASS-427-397.7	c 27	N82-33520 *	US-PATENT-CLASS-428-189	c 27	N79-12221 *
US-PATENT-CLASS-427-229	c 25	N78-10225 *	US-PATENT-CLASS-427-397.7	c 26	N85-35267 *	US-PATENT-CLASS-428-192	c 27	N82-24339 *
US-PATENT-CLASS-427-229	c 37	N87-21334 *	US-PATENT-CLASS-427-398A	c 44	N79-11472 *	US-PATENT-CLASS-428-193	c 27	N82-24339 *
US-PATENT-CLASS-427-230	c 37	N76-31524 *	US-PATENT-CLASS-427-399	c 44	N79-11472 *	US-PATENT-CLASS-428-202	c 27	N84-14323 *
US-PATENT-CLASS-427-240	c 37	N81-33482 *	US-PATENT-CLASS-427-399	c 36	N84-22944 *	US-PATENT-CLASS-428-212	c 27	N76-14264 *
US-PATENT-CLASS-427-241	c 24	N83-33950 *	US-PATENT-CLASS-427-39	c 24	N85-21287 *	US-PATENT-CLASS-428-212	c 27	N79-12221 *
US-PATENT-CLASS-427-243	c 31	N83-35177 *	US-PATENT-CLASS-427-39	c 31	N86-32587 *	US-PATENT-CLASS-428-212	c 27	N82-29456 *
US-PATENT-CLASS-427-244	c 25	N82-21268 *	US-PATENT-CLASS-427-400	c 27	N83-34039 *	US-PATENT-CLASS-428-214	c 27	N76-14264 *
US-PATENT-CLASS-427-245	c 27	N80-23452 *	US-PATENT-CLASS-427-402	c 27	N76-22377 *	US-PATENT-CLASS-428-218	c 27	N82-29456 *
US-PATENT-CLASS-427-246	c 25	N82-21268 *	US-PATENT-CLASS-427-402	c 27	N76-23426 *	US-PATENT-CLASS-428-218	c 24	N83-13171 *
US-PATENT-CLASS-427-247	c 31	N83-35177 *	US-PATENT-CLASS-427-405	c 34	N78-18355 *	US-PATENT-CLASS-428-220	c 15	N79-26100 *

US-PATENT-CLASS-428-241	c 27	N82-24339 *	US-PATENT-CLASS-428-411	c 27	N79-14214 *	US-PATENT-CLASS-428-538	c 27	N76-23426 *
US-PATENT-CLASS-428-241	c 27	N83-18908 *	US-PATENT-CLASS-428-412	c 27	N76-16230 *	US-PATENT-CLASS-428-538	c 27	N78-31233 *
US-PATENT-CLASS-428-242	c 27	N82-24339 *	US-PATENT-CLASS-428-412	c 27	N78-31233 *	US-PATENT-CLASS-428-539	c 27	N76-16229 *
US-PATENT-CLASS-428-244	c 27	N83-18908 *	US-PATENT-CLASS-428-412	c 74	N78-32854 *	US-PATENT-CLASS-428-541	c 24	N81-13999 *
US-PATENT-CLASS-428-245	c 27	N82-24339 *	US-PATENT-CLASS-428-412	c 27	N79-18052 *	US-PATENT-CLASS-428-564	c 26	N84-33555 *
US-PATENT-CLASS-428-245	c 27	N83-18908 *	US-PATENT-CLASS-428-413	c 27	N76-16230 *	US-PATENT-CLASS-428-593	c 24	N82-24296 *
US-PATENT-CLASS-428-246	c 27	N84-14322 *	US-PATENT-CLASS-428-413	c 15	N79-26100 *	US-PATENT-CLASS-428-593	c 24	N84-11214 *
US-PATENT-CLASS-428-246	c 03	N84-33394 *	US-PATENT-CLASS-428-413	c 24	N81-14000 *	US-PATENT-CLASS-428-594	c 24	N82-24296 *
US-PATENT-CLASS-428-247	c 33	N79-12331 *	US-PATENT-CLASS-428-413	c 27	N85-34281 *	US-PATENT-CLASS-428-594	c 24	N82-32417 *
US-PATENT-CLASS-428-247	c 33	N82-26571 *	US-PATENT-CLASS-428-413	c 27	N87-25469 *	US-PATENT-CLASS-428-595	c 18	N84-33450 *
US-PATENT-CLASS-428-251	c 27	N82-24339 *	US-PATENT-CLASS-428-414	c 15	N79-26100 *	US-PATENT-CLASS-428-604	c 24	N82-24296 *
US-PATENT-CLASS-428-257	c 27	N82-24339 *	US-PATENT-CLASS-428-416	c 27	N76-14264 *	US-PATENT-CLASS-428-604	c 24	N82-32417 *
US-PATENT-CLASS-428-258	c 33	N79-12331 *	US-PATENT-CLASS-428-417	c 27	N87-25469 *	US-PATENT-CLASS-428-607	c 24	N82-32417 *
US-PATENT-CLASS-428-259	c 33	N79-12331 *	US-PATENT-CLASS-428-418	c 24	N77-27188 *	US-PATENT-CLASS-428-607	c 26	N87-25455 *
US-PATENT-CLASS-428-260	c 27	N81-27272 *	US-PATENT-CLASS-428-418	c 15	N79-26100 *	US-PATENT-CLASS-428-608	c 24	N82-32417 *
US-PATENT-CLASS-428-260	c 27	N82-24339 *	US-PATENT-CLASS-428-421	c 34	N77-18382 *	US-PATENT-CLASS-428-623	c 27	N83-31855 *
US-PATENT-CLASS-428-260	c 27	N83-18908 *	US-PATENT-CLASS-428-421	c 15	N79-26100 *	US-PATENT-CLASS-428-629	c 44	N80-16452 *
US-PATENT-CLASS-428-260	c 27	N84-14322 *	US-PATENT-CLASS-428-421	c 27	N80-24437 *	US-PATENT-CLASS-428-632	c 26	N81-25188 *
US-PATENT-CLASS-428-260	c 27	N85-34281 *	US-PATENT-CLASS-428-421	c 76	N83-34796 *	US-PATENT-CLASS-428-632	c 26	N84-27855 *
US-PATENT-CLASS-428-262	c 27	N87-14516 *	US-PATENT-CLASS-428-421	c 27	N87-16909 *	US-PATENT-CLASS-428-632	c 26	N87-25455 *
US-PATENT-CLASS-428-263	c 27	N82-16238 *	US-PATENT-CLASS-428-421	c 27	N87-23736 *	US-PATENT-CLASS-428-633	c 34	N78-18355 *
US-PATENT-CLASS-428-264	c 27	N82-16238 *	US-PATENT-CLASS-428-422	c 27	N78-31233 *	US-PATENT-CLASS-428-633	c 27	N83-31855 *
US-PATENT-CLASS-428-265	c 27	N82-16238 *	US-PATENT-CLASS-428-422	c 76	N87-34796 *	US-PATENT-CLASS-428-633	c 24	N85-21266 *
US-PATENT-CLASS-428-266	c 27	N82-24339 *	US-PATENT-CLASS-428-422	c 27	N87-23736 *	US-PATENT-CLASS-428-633	c 24	N85-35233 *
US-PATENT-CLASS-428-267	c 27	N82-16238 *	US-PATENT-CLASS-428-423.5	c 03	N84-33394 *	US-PATENT-CLASS-428-639	c 26	N84-33555 *
US-PATENT-CLASS-428-272	c 27	N82-16238 *	US-PATENT-CLASS-428-425	c 24	N77-28225 *	US-PATENT-CLASS-428-63	c 24	N83-13172 *
US-PATENT-CLASS-428-280	c 27	N79-12221 *	US-PATENT-CLASS-428-426	c 74	N78-15879 *	US-PATENT-CLASS-428-641	c 26	N83-31795 *
US-PATENT-CLASS-428-280	c 03	N84-33394 *	US-PATENT-CLASS-428-427	c 27	N78-32260 *	US-PATENT-CLASS-428-650	c 44	N80-16452 *
US-PATENT-CLASS-428-282	c 24	N79-25142 *	US-PATENT-CLASS-428-427	c 44	N83-34448 *	US-PATENT-CLASS-428-650	c 26	N83-31795 *
US-PATENT-CLASS-428-283	c 24	N82-29362 *	US-PATENT-CLASS-428-428	c 27	N76-23277 *	US-PATENT-CLASS-428-651	c 26	N87-25455 *
US-PATENT-CLASS-428-283	c 27	N82-29456 *	US-PATENT-CLASS-428-428	c 27	N76-23426 *	US-PATENT-CLASS-428-652	c 34	N78-18355 *
US-PATENT-CLASS-428-284	c 24	N82-29362 *	US-PATENT-CLASS-428-428	c 74	N78-15879 *	US-PATENT-CLASS-428-652	c 44	N78-19599 *
US-PATENT-CLASS-428-285	c 27	N79-12221 *	US-PATENT-CLASS-428-428	c 27	N78-32260 *	US-PATENT-CLASS-428-656	c 24	N85-21266 *
US-PATENT-CLASS-428-286	c 27	N79-12221 *	US-PATENT-CLASS-428-428	c 44	N83-34448 *	US-PATENT-CLASS-428-656	c 24	N85-35233 *
US-PATENT-CLASS-428-286	c 24	N82-29362 *	US-PATENT-CLASS-428-432	c 27	N84-33589 *	US-PATENT-CLASS-428-658	c 44	N80-16452 *
US-PATENT-CLASS-428-287	c 24	N82-29362 *	US-PATENT-CLASS-428-432	c 76	N85-33826 *	US-PATENT-CLASS-428-660	c 26	N87-25455 *
US-PATENT-CLASS-428-287	c 03	N84-33394 *	US-PATENT-CLASS-428-446	c 27	N78-32260 *	US-PATENT-CLASS-428-667	c 34	N78-18355 *
US-PATENT-CLASS-428-288	c 24	N82-29362 *	US-PATENT-CLASS-428-446	c 27	N82-29456 *	US-PATENT-CLASS-428-667	c 44	N78-19599 *
US-PATENT-CLASS-428-289	c 27	N82-29456 *	US-PATENT-CLASS-428-446	c 27	N86-19458 *	US-PATENT-CLASS-428-675	c 44	N80-16452 *
US-PATENT-CLASS-428-290	c 24	N78-15180 *	US-PATENT-CLASS-428-447	c 27	N76-14264 *	US-PATENT-CLASS-428-678	c 26	N81-25188 *
US-PATENT-CLASS-428-290	c 24	N79-25142 *	US-PATENT-CLASS-428-447	c 27	N76-16230 *	US-PATENT-CLASS-428-678	c 27	N83-31855 *
US-PATENT-CLASS-428-290	c 27	N87-28657 *	US-PATENT-CLASS-428-447	c 27	N78-31233 *	US-PATENT-CLASS-428-678	c 26	N84-33555 *
US-PATENT-CLASS-428-294	c 24	N78-17150 *	US-PATENT-CLASS-428-447	c 74	N78-32854 *	US-PATENT-CLASS-428-678	c 24	N85-21266 *
US-PATENT-CLASS-428-294	c 76	N83-34796 *	US-PATENT-CLASS-428-447	c 27	N79-12221 *	US-PATENT-CLASS-428-678	c 24	N85-35233 *
US-PATENT-CLASS-428-301	c 24	N77-27188 *	US-PATENT-CLASS-428-447	c 27	N79-18052 *	US-PATENT-CLASS-428-679	c 44	N78-19599 *
US-PATENT-CLASS-428-302	c 24	N78-17150 *	US-PATENT-CLASS-428-447	c 24	N79-25142 *	US-PATENT-CLASS-428-679	c 26	N81-25188 *
US-PATENT-CLASS-428-303	c 27	N76-15310 *	US-PATENT-CLASS-428-447	c 27	N82-24339 *	US-PATENT-CLASS-428-679	c 24	N85-21266 *
US-PATENT-CLASS-428-304.4	c 03	N84-33394 *	US-PATENT-CLASS-428-447	c 27	N87-14516 *	US-PATENT-CLASS-428-679	c 24	N85-35233 *
US-PATENT-CLASS-428-307.7	c 27	N82-29456 *	US-PATENT-CLASS-428-447	c 27	N87-23736 *	US-PATENT-CLASS-428-680	c 44	N80-16452 *
US-PATENT-CLASS-428-311.5	c 27	N82-29456 *	US-PATENT-CLASS-428-448	c 27	N82-24339 *	US-PATENT-CLASS-428-680	c 26	N81-25188 *
US-PATENT-CLASS-428-312.6	c 27	N82-29456 *	US-PATENT-CLASS-428-450	c 27	N76-16229 *	US-PATENT-CLASS-428-680	c 26	N83-31795 *
US-PATENT-CLASS-428-312.6	c 44	N83-34448 *	US-PATENT-CLASS-428-450	c 27	N76-23277 *	US-PATENT-CLASS-428-680	c 24	N85-21266 *
US-PATENT-CLASS-428-312	c 27	N78-32260 *	US-PATENT-CLASS-428-450	c 27	N76-23426 *	US-PATENT-CLASS-428-680	c 24	N85-35233 *
US-PATENT-CLASS-428-313	c 24	N78-27180 *	US-PATENT-CLASS-428-450	c 26	N79-12221 *	US-PATENT-CLASS-428-681	c 24	N85-21266 *
US-PATENT-CLASS-428-317.9	c 27	N82-29456 *	US-PATENT-CLASS-428-450	c 27	N83-31795 *	US-PATENT-CLASS-428-681	c 24	N85-35233 *
US-PATENT-CLASS-428-319.1	c 03	N84-33394 *	US-PATENT-CLASS-428-451	c 27	N79-18052 *	US-PATENT-CLASS-428-682	c 24	N85-21266 *
US-PATENT-CLASS-428-325	c 27	N78-32260 *	US-PATENT-CLASS-428-457	c 27	N76-16229 *	US-PATENT-CLASS-428-682	c 24	N85-35233 *
US-PATENT-CLASS-428-325	c 27	N82-29456 *	US-PATENT-CLASS-428-457	c 24	N77-27188 *	US-PATENT-CLASS-428-683	c 24	N85-21266 *
US-PATENT-CLASS-428-325	c 44	N83-34448 *	US-PATENT-CLASS-428-457	c 24	N77-28225 *	US-PATENT-CLASS-428-684	c 24	N85-21266 *
US-PATENT-CLASS-428-328	c 24	N77-27188 *	US-PATENT-CLASS-428-457	c 26	N82-30371 *	US-PATENT-CLASS-428-684	c 76	N85-33826 *
US-PATENT-CLASS-428-331	c 27	N78-32260 *	US-PATENT-CLASS-428-458	c 24	N77-28225 *	US-PATENT-CLASS-428-698	c 26	N85-35267 *
US-PATENT-CLASS-428-331	c 27	N83-18908 *	US-PATENT-CLASS-428-458	c 24	N79-16915 *	US-PATENT-CLASS-428-702	c 27	N86-19458 *
US-PATENT-CLASS-428-332	c 27	N76-22377 *	US-PATENT-CLASS-428-458	c 27	N86-20561 *	US-PATENT-CLASS-428-702	c 27	N87-23736 *
US-PATENT-CLASS-428-332	c 27	N76-23426 *	US-PATENT-CLASS-428-461	c 34	N77-18382 *	US-PATENT-CLASS-428-704	c 26	N85-35267 *
US-PATENT-CLASS-428-332	c 24	N78-27180 *	US-PATENT-CLASS-428-462	c 27	N82-24340 *	US-PATENT-CLASS-428-704	c 27	N87-16909 *
US-PATENT-CLASS-428-332	c 27	N79-12221 *	US-PATENT-CLASS-428-466	c 27	N82-24340 *	US-PATENT-CLASS-428-71	c 24	N78-15180 *
US-PATENT-CLASS-428-332	c 24	N79-25142 *	US-PATENT-CLASS-428-469	c 27	N76-16229 *	US-PATENT-CLASS-428-71	c 03	N84-33394 *
US-PATENT-CLASS-428-332	c 27	N82-24340 *	US-PATENT-CLASS-428-469	c 26	N83-31795 *	US-PATENT-CLASS-428-73	c 24	N78-10214 *
US-PATENT-CLASS-428-334	c 74	N78-15879 *	US-PATENT-CLASS-428-471	c 26	N81-25188 *	US-PATENT-CLASS-428-73	c 24	N78-15180 *
US-PATENT-CLASS-428-336	c 74	N78-15879 *	US-PATENT-CLASS-428-472	c 26	N82-30371 *	US-PATENT-CLASS-428-73	c 24	N79-16915 *
US-PATENT-CLASS-428-336	c 27	N86-31727 *	US-PATENT-CLASS-428-473.5	c 27	N81-14078 *	US-PATENT-CLASS-428-76	c 03	N84-33394 *
US-PATENT-CLASS-428-339	c 27	N82-24340 *	US-PATENT-CLASS-428-473.5	c 27	N81-29229 *	US-PATENT-CLASS-428-77	c 27	N76-14264 *
US-PATENT-CLASS-428-341	c 27	N78-32260 *	US-PATENT-CLASS-428-473.5	c 27	N84-14322 *	US-PATENT-CLASS-428-77	c 27	N79-12221 *
US-PATENT-CLASS-428-347	c 27	N84-14323 *	US-PATENT-CLASS-428-473.5	c 27	N86-19458 *	US-PATENT-CLASS-428-78	c 27	N84-14323 *
US-PATENT-CLASS-428-35	c 34	N77-18382 *	US-PATENT-CLASS-428-473.5	c 27	N86-20561 *	US-PATENT-CLASS-428-902	c 24	N77-27188 *
US-PATENT-CLASS-428-366	c 24	N79-24062 *	US-PATENT-CLASS-428-473.5	c 24	N86-25416 *	US-PATENT-CLASS-428-902	c 24	N78-10214 *
US-PATENT-CLASS-428-367	c 27	N81-27272 *	US-PATENT-CLASS-428-473.5	c 27	N86-31726 *	US-PATENT-CLASS-428-902	c 24	N78-17149 *
US-PATENT-CLASS-428-367	c 24	N83-33950 *	US-PATENT-CLASS-428-473.5	c 27	N86-31727 *	US-PATENT-CLASS-428-902	c 24	N81-14000 *
US-PATENT-CLASS-428-367	c 27	N84-14322 *	US-PATENT-CLASS-428-473.5	c 27	N87-16909 *	US-PATENT-CLASS-428-902	c 31	N81-25258 *
US-PATENT-CLASS-428-367	c 27	N87-28656 *	US-PATENT-CLASS-428-473.5	c 27	N87-23736 *	US-PATENT-CLASS-428-902	c 27	N81-27272 *
US-PATENT-CLASS-428-368	c 24	N77-27188 *	US-PATENT-CLASS-428-474	c 34	N77-18382 *	US-PATENT-CLASS-428-902	c 27	N83-18908 *
US-PATENT-CLASS-428-368	c 27	N83-18908 *	US-PATENT-CLASS-428-474.4	c 24	N86-25416 *	US-PATENT-CLASS-428-902	c 24	N83-33950 *
US-PATENT-CLASS-428-370	c 27	N84-22745 *	US-PATENT-CLASS-428-474	c 27	N79-33316 *	US-PATENT-CLASS-428-902	c 27	N84-14322 *
US-PATENT-CLASS-428-375	c 24	N79-16915 *	US-PATENT-CLASS-428-474	c 27	N80-24437 *	US-PATENT-CLASS-428-902	c 27	N84-22745 *
US-PATENT-CLASS-428-375	c 24	N83-33950 *	US-PATENT-CLASS-428-477.7	c 24	N86-25416 *	US-PATENT-CLASS-428-903	c 24	N83-33950 *
US-PATENT-CLASS-428-392	c 24	N83-33950 *	US-PATENT-CLASS-428-480	c 24	N81-14000 *	US-PATENT-CLASS-428-911	c 27	N76-16230 *
US-PATENT-CLASS-428-406	c 27	N78-32260 *	US-PATENT-CLASS-428-493	c 27	N82-24340 *	US-PATENT-CLASS-428-911	c 24	N77-27188 *
US-PATENT-CLASS-428-408	c 27	N81-27272 *	US-PATENT-CLASS-428-499	c 27	N82-24339 *	US-PATENT-CLASS-428-913	c 34	N78-25350 *
US-PATENT-CLASS-428-408	c 27	N84-14322 *	US-PATENT-CLASS-428-499	c 27	N82-29456 *	US-PATENT-CLASS-428-913	c 27	N83-18908 *
US-PATENT-CLASS-428-408	c 27	N84-22745 *	US-PATENT-CLASS-428-500	c 27	N80-32516 *	US-PATENT-CLASS-428-913	c 76	N85-33826 *
US-PATENT-CLASS-428-408	c 27	N85-34281 *	US-PATENT-CLASS-428-500	c 27	N87-16909 *	US-PATENT-CLASS-428-920	c 27	N76-16230 *
US-PATENT-CLASS-428-408	c 24	N86-28131 *	US-PATENT-CLASS-428-515	c 27	N78-31233 *	US-PATENT-CLASS-428-920	c 27	N76-23277 *
US-PATENT-CLASS-428-40	c 24	N84-14323 *	US-PATENT-CLASS-428-522	c 27	N78-14164 *	US-PATENT-CLASS-428-920	c 27	N76-23426 *
US-PATENT-CLASS-428-410	c 23	N86-19376 *	US-PATENT-CLASS-428-523	c 27	N78-31233 *	US-PATENT-CLASS-428-920	c 24	N78-15180 *
US-PATENT-CLASS-428-411	c 27	N78-14164 *	US-PATENT-CLASS-428-528	c 24	N81-13999 *	US-PATENT-CLASS-428-920	c 27	N78-32260 *
US-PATENT-CLASS-428-411	c 27	N78-31233 *	US-PATENT-CLASS-428-538	c 27	N76-22377 *	US-PATENT-CLASS-428-920	c 27	N79-12221 *

US-PATENT-CLASS-428-920	c 24	N79-25142 *	US-PATENT-CLASS-431-170	c 44	N77-10636 *	US-PATENT-CLASS-455-51	c 32	N81-14186 *
US-PATENT-CLASS-428-920	c 15	N79-26100 *	US-PATENT-CLASS-431-173	c 23	N73-30665 *	US-PATENT-CLASS-455-608	c 32	N87-21207 *
US-PATENT-CLASS-428-920	c 27	N81-27272 *	US-PATENT-CLASS-431-1	c 25	N84-16276 *	US-PATENT-CLASS-455-610	c 35	N82-15381 *
US-PATENT-CLASS-428-920	c 27	N83-18908 *	US-PATENT-CLASS-431-202	c 25	N74-33378 *	US-PATENT-CLASS-455-612	c 74	N82-19029 *
US-PATENT-CLASS-428-920	c 27	N84-14322 *	US-PATENT-CLASS-431-208	c 25	N79-11151 *	US-PATENT-CLASS-455-612	c 74	N82-19029 *
US-PATENT-CLASS-428-920	c 27	N84-22745 *	US-PATENT-CLASS-431-210	c 44	N76-29704 *	US-PATENT-CLASS-455-615	c 74	N82-19029 *
US-PATENT-CLASS-428-921	c 27	N76-16230 *	US-PATENT-CLASS-431-2	c 07	N81-29129 *	US-PATENT-CLASS-455-617	c 74	N82-19029 *
US-PATENT-CLASS-428-921	c 24	N78-27180 *	US-PATENT-CLASS-431-328	c 34	N78-27357 *	US-PATENT-CLASS-455-619	c 32	N81-14186 *
US-PATENT-CLASS-428-921	c 24	N81-13999 *	US-PATENT-CLASS-431-352	c 28	N71-28915 *	US-PATENT-CLASS-455-65	c 32	N87-25511 *
US-PATENT-CLASS-428-921	c 03	N84-33394 *	US-PATENT-CLASS-431-352	c 25	N78-10224 *	US-PATENT-CLASS-455-71	c 32	N81-14186 *
US-PATENT-CLASS-428-921	c 24	N86-28131 *	US-PATENT-CLASS-431-41	c 44	N77-10636 *	US-PATENT-CLASS-455-73	c 32	N85-29118 *
US-PATENT-CLASS-428-922	c 27	N78-14164 *	US-PATENT-CLASS-431-4	c 44	N76-29704 *	US-PATENT-CLASS-467-28	c 39	N80-10507 *
US-PATENT-CLASS-428-938	c 27	N82-28441 *	US-PATENT-CLASS-431-7	c 34	N78-27357 *	US-PATENT-CLASS-47-1.2	c 51	N75-25503 *
US-PATENT-CLASS-428-93	c 34	N78-25350 *	US-PATENT-CLASS-431-9	c 23	N73-30665 *	US-PATENT-CLASS-47-1.4	c 31	N73-32750 *
US-PATENT-CLASS-428-941	c 27	N82-28441 *	US-PATENT-CLASS-432-18	c 35	N86-20750 *	US-PATENT-CLASS-47-17	c 31	N73-32750 *
US-PATENT-CLASS-428-94	c 34	N78-25350 *	US-PATENT-CLASS-432-223	c 25	N79-11151 *	US-PATENT-CLASS-47-26	c 37	N83-26078 *
US-PATENT-CLASS-428-95	c 34	N78-25350 *	US-PATENT-CLASS-432-227	c 35	N83-24828 *	US-PATENT-CLASS-47-39	c 51	N75-25503 *
US-PATENT-CLASS-428-96	c 34	N78-25350 *	US-PATENT-CLASS-432-264	c 33	N81-19389 *	US-PATENT-CLASS-47-58	c 51	N75-25503 *
US-PATENT-CLASS-428-97	c 34	N78-25350 *	US-PATENT-CLASS-432-29	c 25	N79-11151 *	US-PATENT-CLASS-47-58	c 51	N83-17045 *
US-PATENT-CLASS-429-101	c 44	N79-17313 *	US-PATENT-CLASS-432-58	c 35	N83-24828 *	US-PATENT-CLASS-47-58	c 45	N84-12654 *
US-PATENT-CLASS-429-101	c 44	N79-26474 *	US-PATENT-CLASS-433-118	c 52	N82-29862 *	US-PATENT-CLASS-47-205	c 37	N80-32717 *
US-PATENT-CLASS-429-101	c 33	N80-20487 *	US-PATENT-CLASS-433-125	c 52	N82-29862 *	US-PATENT-CLASS-47-220	c 37	N87-17034 *
US-PATENT-CLASS-429-105	c 44	N77-22606 *	US-PATENT-CLASS-433-86	c 52	N82-29862 *	US-PATENT-CLASS-48-DIG.8	c 28	N80-10374 *
US-PATENT-CLASS-429-105	c 33	N80-20487 *	US-PATENT-CLASS-434-114	c 82	N87-29372 *	US-PATENT-CLASS-48-10.3	c 28	N80-10374 *
US-PATENT-CLASS-429-105	c 44	N83-27344 *	US-PATENT-CLASS-434-243	c 09	N85-19990 *	US-PATENT-CLASS-48-102A	c 28	N80-10374 *
US-PATENT-CLASS-429-107	c 44	N77-22606 *	US-PATENT-CLASS-434-243	c 09	N85-19990 *	US-PATENT-CLASS-48-107	c 28	N80-10374 *
US-PATENT-CLASS-429-107	c 33	N80-20487 *	US-PATENT-CLASS-434-2	c 32	N84-27951 *	US-PATENT-CLASS-48-116	c 44	N76-18642 *
US-PATENT-CLASS-429-107	c 44	N83-27344 *	US-PATENT-CLASS-434-34	c 14	N87-25344 *	US-PATENT-CLASS-48-116	c 44	N77-10636 *
US-PATENT-CLASS-429-109	c 33	N80-20487 *	US-PATENT-CLASS-434-35	c 09	N85-19990 *	US-PATENT-CLASS-48-117	c 44	N76-18642 *
US-PATENT-CLASS-429-109	c 44	N83-27344 *	US-PATENT-CLASS-434-38	c 36	N83-34304 *	US-PATENT-CLASS-48-117	c 44	N77-10636 *
US-PATENT-CLASS-429-109	c 44	N86-19721 *	US-PATENT-CLASS-434-403	c 31	N83-34073 *	US-PATENT-CLASS-48-117	c 28	N80-10374 *
US-PATENT-CLASS-429-111	c 25	N84-12262 *	US-PATENT-CLASS-434-42	c 09	N82-24212 *	US-PATENT-CLASS-48-197-R	c 25	N86-25428 *
US-PATENT-CLASS-429-111	c 44	N84-23019 *	US-PATENT-CLASS-434-43	c 09	N82-24212 *	US-PATENT-CLASS-48-197R	c 44	N76-29704 *
US-PATENT-CLASS-429-120	c 44	N81-24521 *	US-PATENT-CLASS-434-49	c 09	N85-19990 *	US-PATENT-CLASS-48-197R	c 44	N77-10636 *
US-PATENT-CLASS-429-139	c 27	N80-32516 *	US-PATENT-CLASS-434-4	c 36	N83-34304 *	US-PATENT-CLASS-48-212	c 44	N77-10636 *
US-PATENT-CLASS-429-139	c 27	N81-24257 *	US-PATENT-CLASS-434-4	c 35	N86-32697 *	US-PATENT-CLASS-48-215	c 44	N76-29700 *
US-PATENT-CLASS-429-13	c 44	N79-10513 *	US-PATENT-CLASS-434-59	c 54	N81-27806 *	US-PATENT-CLASS-48-61	c 44	N77-10636 *
US-PATENT-CLASS-429-144	c 44	N82-29708 *	US-PATENT-CLASS-434-88	c 31	N83-34073 *	US-PATENT-CLASS-48-61	c 28	N80-10374 *
US-PATENT-CLASS-429-144	c 44	N83-32176 *	US-PATENT-CLASS-435-160	c 23	N85-35227 *	US-PATENT-CLASS-48-63	c 44	N76-18642 *
US-PATENT-CLASS-429-15	c 44	N79-26474 *	US-PATENT-CLASS-435-289	c 51	N80-27067 *	US-PATENT-CLASS-48-75	c 44	N76-18642 *
US-PATENT-CLASS-429-15	c 44	N86-19721 *	US-PATENT-CLASS-435-289	c 51	N83-27569 *	US-PATENT-CLASS-48-89	c 44	N82-16475 *
US-PATENT-CLASS-429-160	c 44	N81-24521 *	US-PATENT-CLASS-435-291	c 51	N80-27067 *	US-PATENT-CLASS-48-95	c 44	N76-18642 *
US-PATENT-CLASS-429-164	c 44	N81-24521 *	US-PATENT-CLASS-435-291	c 51	N81-28698 *	US-PATENT-CLASS-48-95	c 44	N76-29700 *
US-PATENT-CLASS-429-190	c 44	N77-22606 *	US-PATENT-CLASS-435-291	c 35	N82-28604 *	US-PATENT-CLASS-49-DIG.1	c 34	N87-25350 *
US-PATENT-CLASS-429-193	c 44	N82-29710 *	US-PATENT-CLASS-435-291	c 51	N80-27067 *	US-PATENT-CLASS-49-171	c 31	N81-19343 *
US-PATENT-CLASS-429-19	c 44	N86-19721 *	US-PATENT-CLASS-435-311	c 51	N83-27569 *	US-PATENT-CLASS-49-479	c 34	N78-25350 *
US-PATENT-CLASS-429-206	c 25	N83-13188 *	US-PATENT-CLASS-435-316	c 51	N80-27067 *	US-PATENT-CLASS-49-485	c 34	N78-25350 *
US-PATENT-CLASS-429-206	c 33	N84-14422 *	US-PATENT-CLASS-435-32	c 51	N80-27067 *	US-PATENT-CLASS-49-68	c 18	N74-22136 *
US-PATENT-CLASS-429-206	c 33	N85-29144 *	US-PATENT-CLASS-435-34	c 51	N80-18714 *	US-PATENT-CLASS-5-345	c 05	N70-33285 *
US-PATENT-CLASS-429-223	c 26	N84-22734 *	US-PATENT-CLASS-435-34	c 51	N80-27067 *	US-PATENT-CLASS-5-459	c 03	N84-33394 *
US-PATENT-CLASS-429-229	c 33	N84-14422 *	US-PATENT-CLASS-435-34	c 51	N81-28698 *	US-PATENT-CLASS-5-69	c 05	N72-11085 *
US-PATENT-CLASS-429-234	c 26	N84-22734 *	US-PATENT-CLASS-435-34	c 35	N82-28604 *	US-PATENT-CLASS-5-81-R	c 85	N87-21755 *
US-PATENT-CLASS-429-23	c 44	N77-14581 *	US-PATENT-CLASS-435-34	c 51	N83-27569 *	US-PATENT-CLASS-5-82	c 05	N71-23159 *
US-PATENT-CLASS-429-249	c 27	N81-24257 *	US-PATENT-CLASS-435-34	c 51	N83-28849 *	US-PATENT-CLASS-51-170	c 15	N71-26134 *
US-PATENT-CLASS-429-249	c 23	N81-29160 *	US-PATENT-CLASS-435-34	c 51	N80-27067 *	US-PATENT-CLASS-51-216	c 15	N72-20444 *
US-PATENT-CLASS-429-249	c 33	N85-29144 *	US-PATENT-CLASS-435-38	c 51	N83-27569 *	US-PATENT-CLASS-51-225	c 37	N74-27905 *
US-PATENT-CLASS-429-251	c 44	N82-29708 *	US-PATENT-CLASS-435-38	c 51	N83-28849 *	US-PATENT-CLASS-51-234	c 37	N74-27905 *
US-PATENT-CLASS-429-251	c 44	N83-32176 *	US-PATENT-CLASS-435-39	c 51	N80-27067 *	US-PATENT-CLASS-51-235	c 37	N78-17383 *
US-PATENT-CLASS-429-253	c 44	N79-25481 *	US-PATENT-CLASS-435-39	c 35	N82-28604 *	US-PATENT-CLASS-51-235	c 76	N80-18951 *
US-PATENT-CLASS-429-253	c 27	N81-24257 *	US-PATENT-CLASS-435-39	c 51	N83-27569 *	US-PATENT-CLASS-51-277	c 74	N80-24149 *
US-PATENT-CLASS-429-253	c 23	N81-29160 *	US-PATENT-CLASS-435-39	c 51	N83-28849 *	US-PATENT-CLASS-51-281-R	c 31	N87-25491 *
US-PATENT-CLASS-429-253	c 25	N83-13188 *	US-PATENT-CLASS-435-39	c 51	N80-27067 *	US-PATENT-CLASS-51-283R	c 74	N80-24149 *
US-PATENT-CLASS-429-254	c 44	N78-25530 *	US-PATENT-CLASS-435-3	c 51	N80-27067 *	US-PATENT-CLASS-51-283	c 46	N74-23069 *
US-PATENT-CLASS-429-254	c 44	N82-29708 *	US-PATENT-CLASS-435-3	c 51	N83-27569 *	US-PATENT-CLASS-51-320	c 15	N72-20444 *
US-PATENT-CLASS-429-254	c 44	N83-32176 *	US-PATENT-CLASS-435-3	c 51	N83-28849 *	US-PATENT-CLASS-51-323	c 15	N72-20444 *
US-PATENT-CLASS-429-27	c 27	N81-24257 *	US-PATENT-CLASS-435-5	c 51	N81-28698 *	US-PATENT-CLASS-51-57	c 15	N71-22705 *
US-PATENT-CLASS-429-27	c 23	N81-29160 *	US-PATENT-CLASS-435-807	c 51	N83-28849 *	US-PATENT-CLASS-51-73R	c 37	N85-21650 *
US-PATENT-CLASS-429-27	c 44	N86-25874 *	US-PATENT-CLASS-435-842	c 23	N85-35227 *	US-PATENT-CLASS-51-97R	c 37	N74-27905 *
US-PATENT-CLASS-429-28	c 27	N81-24257 *	US-PATENT-CLASS-435-8	c 51	N83-27569 *	US-PATENT-CLASS-52-DIG.10	c 18	N72-25540 *
US-PATENT-CLASS-429-28	c 23	N81-29160 *	US-PATENT-CLASS-436-155	c 25	N85-29213 *	US-PATENT-CLASS-52-DIG.10	c 18	N72-25541 *
US-PATENT-CLASS-429-33	c 44	N79-17313 *	US-PATENT-CLASS-44-1-SR	c 25	N85-35253 *	US-PATENT-CLASS-52-108	c 15	N72-18477 *
US-PATENT-CLASS-429-33	c 44	N82-29710 *	US-PATENT-CLASS-44-1R	c 44	N78-31527 *	US-PATENT-CLASS-52-108	c 31	N81-27323 *
US-PATENT-CLASS-429-34	c 44	N77-14581 *	US-PATENT-CLASS-44-1R	c 25	N81-33246 *	US-PATENT-CLASS-52-109	c 31	N87-25492 *
US-PATENT-CLASS-429-34	c 44	N83-27344 *	US-PATENT-CLASS-44-1SR	c 25	N82-29371 *	US-PATENT-CLASS-52-110	c 37	N73-32749 *
US-PATENT-CLASS-429-40	c 44	N83-27344 *	US-PATENT-CLASS-44-2	c 25	N83-31743 *	US-PATENT-CLASS-52-111	c 37	N86-25791 *
US-PATENT-CLASS-429-41	c 44	N79-10513 *	US-PATENT-CLASS-44-2	c 44	N78-31527 *	US-PATENT-CLASS-52-111	c 31	N81-27324 *
US-PATENT-CLASS-429-42	c 44	N79-10513 *	US-PATENT-CLASS-44-50	c 27	N81-17261 *	US-PATENT-CLASS-52-111	c 37	N86-25789 *
US-PATENT-CLASS-429-44	c 44	N84-28205 *	US-PATENT-CLASS-44-51	c 25	N79-11151 *	US-PATENT-CLASS-52-117	c 37	N86-32737 *
US-PATENT-CLASS-429-51	c 44	N86-19721 *	US-PATENT-CLASS-44-62	c 27	N79-11261 *	US-PATENT-CLASS-52-126.5	c 31	N87-16918 *
US-PATENT-CLASS-429-57	c 44	N86-25874 *	US-PATENT-CLASS-44-77	c 28	N81-14103 *	US-PATENT-CLASS-52-127.7	c 37	N85-30335 *
US-PATENT-CLASS-429-58	c 35	N85-21596 *	US-PATENT-CLASS-44-77	c 06	N71-23499 *	US-PATENT-CLASS-52-127	c 15	N71-21531 *
US-PATENT-CLASS-429-94	c 44	N81-24521 *	US-PATENT-CLASS-445-35	c 37	N85-33489 *	US-PATENT-CLASS-52-169	c 15	N72-25454 *
US-PATENT-CLASS-430-17	c 35	N82-11432 *	US-PATENT-CLASS-455-102	c 33	N81-15192 *	US-PATENT-CLASS-52-171	c 11	N73-12285 *
US-PATENT-CLASS-430-271	c 27	N81-25209 *	US-PATENT-CLASS-455-137	c 35	N82-15381 *	US-PATENT-CLASS-52-171	c 74	N85-29750 *
US-PATENT-CLASS-430-325	c 27	N81-25209 *	US-PATENT-CLASS-455-137	c 35	N82-15381 *	US-PATENT-CLASS-52-173R	c 44	N77-31601 *
US-PATENT-CLASS-430-329	c 27	N81-25209 *	US-PATENT-CLASS-455-202	c 33	N82-29539 *	US-PATENT-CLASS-52-173	c 15	N72-25454 *
US-PATENT-CLASS-430-330	c 27	N81-25209 *	US-PATENT-CLASS-455-202	c 32	N84-27952 *	US-PATENT-CLASS-52-1	c 15	N72-28496 *
US-PATENT-CLASS-430-372	c 35	N82-11432 *	US-PATENT-CLASS-455-208	c 32	N84-27952 *	US-PATENT-CLASS-52-232	c 37	N81-14317 *
US-PATENT-CLASS-431-10	c 34	N78-27357 *	US-PATENT-CLASS-455-208	c 32	N82-29539 *	US-PATENT-CLASS-52-236	c 39	N76-31562 *
US-PATENT-CLASS-431-10	c 25	N79-11151 *	US-PATENT-CLASS-455-230	c 33	N82-29539 *	US-PATENT-CLASS-52-249	c 33	N71-25351 *
US-PATENT-CLASS-431-116	c 44	N77-10636 *	US-PATENT-CLASS-455-260	c 32	N84-27952 *	US-PATENT-CLASS-52-272	c 31	N71-24035 *
US-PATENT-CLASS-431-11	c 44	N77-10636 *	US-PATENT-CLASS-455-260	c 32	N81-29308 *	US-PATENT-CLASS-52-284	c 32	N73-13921 *
US-PATENT-CLASS-431-158	c 25	N78-10224 *	US-PATENT-CLASS-455-278	c 32	N82-29539 *	US-PATENT-CLASS-52-2	c 32	N71-21045 *
US-PATENT-CLASS-431-162	c 44	N77-10636 *	US-PATENT-CLASS-455-306	c 33				
US-PATENT-CLASS-431-163	c 44	N76-29704 *						

US-PATENT-CLASS-52-2	c 44	N77-32583 *	US-PATENT-CLASS-524-548	c 27	N86-20560 *	US-PATENT-CLASS-526-27	c 27	N78-32256 *
US-PATENT-CLASS-52-309.15	c 31	N87-16918 *	US-PATENT-CLASS-524-548	c 27	N87-22845 *	US-PATENT-CLASS-526-285	c 27	N83-34040 *
US-PATENT-CLASS-52-309.1	c 31	N81-25258 *	US-PATENT-CLASS-524-564	c 27	N83-19900 *	US-PATENT-CLASS-526-285	c 27	N86-27450 *
US-PATENT-CLASS-52-391	c 31	N87-16918 *	US-PATENT-CLASS-524-567	c 27	N85-29044 *	US-PATENT-CLASS-526-328	c 27	N85-29043 *
US-PATENT-CLASS-52-3	c 31	N71-16080 *	US-PATENT-CLASS-524-726	c 27	N83-28240 *	US-PATENT-CLASS-526-329.2	c 27	N85-29043 *
US-PATENT-CLASS-52-404	c 33	N71-25351 *	US-PATENT-CLASS-524-786	c 27	N83-19900 *	US-PATENT-CLASS-526-49	c 27	N78-32256 *
US-PATENT-CLASS-52-404	c 16	N84-22601 *	US-PATENT-CLASS-525-107	c 27	N85-34281 *	US-PATENT-CLASS-526-50	c 27	N78-32256 *
US-PATENT-CLASS-52-506	c 16	N84-22601 *	US-PATENT-CLASS-525-108	c 27	N86-27451 *	US-PATENT-CLASS-526-7	c 44	N79-25481 *
US-PATENT-CLASS-52-506	c 37	N85-30335 *	US-PATENT-CLASS-525-113	c 27	N85-34281 *	US-PATENT-CLASS-526-88	c 25	N81-19242 *
US-PATENT-CLASS-52-511	c 31	N87-16918 *	US-PATENT-CLASS-525-115	c 27	N86-27451 *	US-PATENT-CLASS-526-914	c 28	N81-15119 *
US-PATENT-CLASS-52-51	c 44	N77-31601 *	US-PATENT-CLASS-525-119	c 27	N85-34281 *	US-PATENT-CLASS-526-9	c 44	N79-25481 *
US-PATENT-CLASS-52-573	c 15	N72-28496 *	US-PATENT-CLASS-525-119	c 27	N86-27451 *	US-PATENT-CLASS-526-102	c 24	N86-19380 *
US-PATENT-CLASS-52-594	c 15	N72-25454 *	US-PATENT-CLASS-525-121	c 27	N86-27451 *	US-PATENT-CLASS-526-103	c 24	N86-19380 *
US-PATENT-CLASS-52-594	c 32	N73-13921 *	US-PATENT-CLASS-525-181	c 27	N83-28240 *	US-PATENT-CLASS-526-106	c 27	N85-34282 *
US-PATENT-CLASS-52-632	c 31	N81-27324 *	US-PATENT-CLASS-525-181	c 27	N85-21349 *	US-PATENT-CLASS-526-108	c 23	N86-32525 *
US-PATENT-CLASS-52-632	c 31	N86-19479 *	US-PATENT-CLASS-525-182	c 27	N85-21349 *	US-PATENT-CLASS-526-108	c 27	N87-25469 *
US-PATENT-CLASS-52-632	c 37	N86-32737 *	US-PATENT-CLASS-525-182	c 27	N87-22845 *	US-PATENT-CLASS-526-110	c 24	N84-11213 *
US-PATENT-CLASS-52-632	c 31	N87-25492 *	US-PATENT-CLASS-525-183	c 27	N83-28240 *	US-PATENT-CLASS-526-113	c 27	N85-34281 *
US-PATENT-CLASS-52-637	c 39	N76-31562 *	US-PATENT-CLASS-525-183	c 27	N85-21349 *	US-PATENT-CLASS-526-118	c 27	N81-17260 *
US-PATENT-CLASS-52-637	c 31	N86-19479 *	US-PATENT-CLASS-525-184	c 27	N83-28240 *	US-PATENT-CLASS-526-124	c 23	N86-32525 *
US-PATENT-CLASS-52-645	c 31	N81-25259 *	US-PATENT-CLASS-525-184	c 27	N85-21349 *	US-PATENT-CLASS-526-125	c 27	N83-34040 *
US-PATENT-CLASS-52-645	c 37	N86-25789 *	US-PATENT-CLASS-525-186	c 27	N85-34281 *	US-PATENT-CLASS-526-125	c 27	N84-22749 *
US-PATENT-CLASS-52-645	c 37	N86-32737 *	US-PATENT-CLASS-525-186	c 27	N86-20560 *	US-PATENT-CLASS-526-125	c 27	N85-21348 *
US-PATENT-CLASS-52-646	c 31	N73-32749 *	US-PATENT-CLASS-525-229	c 27	N85-34281 *	US-PATENT-CLASS-526-126	c 27	N79-28307 *
US-PATENT-CLASS-52-646	c 31	N86-19479 *	US-PATENT-CLASS-525-26	c 27	N85-29043 *	US-PATENT-CLASS-526-126	c 27	N82-11206 *
US-PATENT-CLASS-52-646	c 37	N86-32737 *	US-PATENT-CLASS-525-282	c 27	N84-14322 *	US-PATENT-CLASS-526-126	c 27	N83-34040 *
US-PATENT-CLASS-52-646	c 31	N87-25492 *	US-PATENT-CLASS-525-282	c 27	N87-15304 *	US-PATENT-CLASS-526-126	c 27	N85-21348 *
US-PATENT-CLASS-52-648	c 11	N72-25287 *	US-PATENT-CLASS-525-287	c 27	N84-14322 *	US-PATENT-CLASS-526-127	c 27	N79-28307 *
US-PATENT-CLASS-52-648	c 39	N76-31562 *	US-PATENT-CLASS-525-326	c 27	N80-24438 *	US-PATENT-CLASS-526-128	c 27	N79-28307 *
US-PATENT-CLASS-52-648	c 31	N81-25258 *	US-PATENT-CLASS-525-330	c 27	N80-24438 *	US-PATENT-CLASS-526-128	c 27	N83-34040 *
US-PATENT-CLASS-52-648	c 31	N86-19479 *	US-PATENT-CLASS-525-340	c 27	N80-24438 *	US-PATENT-CLASS-526-128	c 27	N84-22749 *
US-PATENT-CLASS-52-648	c 37	N86-25789 *	US-PATENT-CLASS-525-36	c 27	N87-22848 *	US-PATENT-CLASS-526-128	c 27	N85-21348 *
US-PATENT-CLASS-52-64	c 31	N73-32749 *	US-PATENT-CLASS-525-374	c 27	N80-24438 *	US-PATENT-CLASS-526-12	c 27	N83-34040 *
US-PATENT-CLASS-52-651	c 39	N76-31562 *	US-PATENT-CLASS-525-375	c 27	N80-24438 *	US-PATENT-CLASS-526-166	c 27	N85-21348 *
US-PATENT-CLASS-52-655	c 11	N72-25287 *	US-PATENT-CLASS-525-384	c 28	N81-15119 *	US-PATENT-CLASS-526-167	c 27	N85-21347 *
US-PATENT-CLASS-52-705	c 37	N76-19437 *	US-PATENT-CLASS-525-389	c 27	N84-22750 *	US-PATENT-CLASS-526-168	c 27	N81-27271 *
US-PATENT-CLASS-52-71	c 18	N75-27040 *	US-PATENT-CLASS-525-417	c 27	N84-22745 *	US-PATENT-CLASS-526-168	c 27	N82-18389 *
US-PATENT-CLASS-52-726	c 39	N76-31562 *	US-PATENT-CLASS-525-420	c 27	N85-20123 *	US-PATENT-CLASS-526-168	c 27	N85-21347 *
US-PATENT-CLASS-52-726	c 31	N81-25258 *	US-PATENT-CLASS-525-423	c 24	N86-19380 *	US-PATENT-CLASS-526-168	c 27	N85-34280 *
US-PATENT-CLASS-52-743	c 37	N81-14317 *	US-PATENT-CLASS-525-426	c 27	N80-26446 *	US-PATENT-CLASS-526-168	c 27	N87-16909 *
US-PATENT-CLASS-52-745	c 39	N76-31562 *	US-PATENT-CLASS-525-426	c 27	N84-22746 *	US-PATENT-CLASS-526-168	c 27	N87-25469 *
US-PATENT-CLASS-52-745	c 31	N81-27323 *	US-PATENT-CLASS-525-426	c 27	N87-28657 *	US-PATENT-CLASS-526-170	c 27	N85-21347 *
US-PATENT-CLASS-52-745	c 37	N85-30335 *	US-PATENT-CLASS-525-432	c 27	N86-19456 *	US-PATENT-CLASS-526-170	c 24	N86-25416 *
US-PATENT-CLASS-52-749	c 39	N76-31562 *	US-PATENT-CLASS-525-432	c 27	N87-28657 *	US-PATENT-CLASS-526-170	c 27	N86-31726 *
US-PATENT-CLASS-52-758F	c 37	N76-19437 *	US-PATENT-CLASS-525-436	c 27	N86-19456 *	US-PATENT-CLASS-526-171	c 27	N86-27450 *
US-PATENT-CLASS-52-806	c 24	N84-11214 *	US-PATENT-CLASS-525-436	c 27	N87-28657 *	US-PATENT-CLASS-526-172	c 27	N82-11206 *
US-PATENT-CLASS-52-808	c 24	N84-11214 *	US-PATENT-CLASS-525-474	c 27	N83-28240 *	US-PATENT-CLASS-526-172	c 27	N84-22749 *
US-PATENT-CLASS-52-80	c 18	N72-25540 *	US-PATENT-CLASS-525-474	c 27	N85-21349 *	US-PATENT-CLASS-526-173	c 27	N82-11206 *
US-PATENT-CLASS-52-80	c 18	N72-25541 *	US-PATENT-CLASS-525-47	c 27	N85-29043 *	US-PATENT-CLASS-526-174	c 27	N86-27450 *
US-PATENT-CLASS-52-80	c 31	N73-32749 *	US-PATENT-CLASS-525-484	c 24	N84-34571 *	US-PATENT-CLASS-526-176	c 27	N86-27450 *
US-PATENT-CLASS-52-814	c 18	N84-33450 *	US-PATENT-CLASS-525-4	c 25	N80-23383 *	US-PATENT-CLASS-526-176	c 27	N87-22848 *
US-PATENT-CLASS-52-814	c 31	N87-16918 *	US-PATENT-CLASS-525-527	c 24	N86-19380 *	US-PATENT-CLASS-526-176	c 27	N86-19456 *
US-PATENT-CLASS-52-81	c 37	N82-32732 *	US-PATENT-CLASS-525-532	c 23	N85-28973 *	US-PATENT-CLASS-526-179	c 27	N86-19456 *
US-PATENT-CLASS-521-124	c 25	N80-16116 *	US-PATENT-CLASS-525-534	c 27	N84-22747 *	US-PATENT-CLASS-526-180	c 27	N82-11206 *
US-PATENT-CLASS-521-125	c 25	N80-16116 *	US-PATENT-CLASS-525-534	c 23	N85-28973 *	US-PATENT-CLASS-526-182	c 27	N86-19456 *
US-PATENT-CLASS-521-127	c 25	N80-16116 *	US-PATENT-CLASS-525-534	c 27	N86-27450 *	US-PATENT-CLASS-526-183	c 27	N84-22746 *
US-PATENT-CLASS-521-141	c 51	N84-28361 *	US-PATENT-CLASS-525-535	c 27	N84-22747 *	US-PATENT-CLASS-526-183	c 27	N85-20123 *
US-PATENT-CLASS-521-142	c 51	N84-28361 *	US-PATENT-CLASS-525-535	c 27	N86-27450 *	US-PATENT-CLASS-526-183	c 27	N86-29039 *
US-PATENT-CLASS-521-146	c 25	N80-23383 *	US-PATENT-CLASS-525-536	c 27	N84-22747 *	US-PATENT-CLASS-526-184	c 27	N87-22848 *
US-PATENT-CLASS-521-149	c 51	N84-28361 *	US-PATENT-CLASS-525-56	c 23	N81-29160 *	US-PATENT-CLASS-526-185	c 27	N84-22749 *
US-PATENT-CLASS-521-157	c 25	N80-16116 *	US-PATENT-CLASS-525-61	c 27	N81-24257 *	US-PATENT-CLASS-526-185	c 27	N85-21348 *
US-PATENT-CLASS-521-27	c 27	N81-14076 *	US-PATENT-CLASS-525-61	c 23	N81-29160 *	US-PATENT-CLASS-526-185	c 27	N86-19456 *
US-PATENT-CLASS-521-32	c 27	N81-14076 *	US-PATENT-CLASS-525-61	c 25	N83-13188 *	US-PATENT-CLASS-526-186	c 27	N85-21348 *
US-PATENT-CLASS-521-55	c 25	N80-23383 *	US-PATENT-CLASS-525-903	c 27	N87-28657 *	US-PATENT-CLASS-526-187	c 27	N85-21348 *
US-PATENT-CLASS-521-62	c 27	N81-14076 *	US-PATENT-CLASS-526-13	c 27	N78-32256 *	US-PATENT-CLASS-526-192	c 27	N85-20123 *
US-PATENT-CLASS-521-918	c 25	N80-23383 *	US-PATENT-CLASS-526-193	c 27	N78-15276 *	US-PATENT-CLASS-526-192	c 27	N87-22848 *
US-PATENT-CLASS-523-135	c 27	N85-29044 *	US-PATENT-CLASS-526-1	c 27	N76-24405 *	US-PATENT-CLASS-526-193	c 27	N87-22848 *
US-PATENT-CLASS-523-205	c 27	N83-19900 *	US-PATENT-CLASS-526-201	c 25	N81-19242 *	US-PATENT-CLASS-526-207	c 27	N80-16158 *
US-PATENT-CLASS-523-433	c 24	N86-19380 *	US-PATENT-CLASS-526-204	c 25	N85-30039 *	US-PATENT-CLASS-526-208	c 27	N82-11206 *
US-PATENT-CLASS-523-434	c 27	N86-27451 *	US-PATENT-CLASS-526-217	c 27	N85-21350 *	US-PATENT-CLASS-526-208	c 27	N80-16158 *
US-PATENT-CLASS-523-435	c 24	N84-11213 *	US-PATENT-CLASS-526-217	c 25	N85-30039 *	US-PATENT-CLASS-526-210	c 27	N82-11206 *
US-PATENT-CLASS-523-440	c 27	N83-34043 *	US-PATENT-CLASS-526-225	c 27	N78-15276 *	US-PATENT-CLASS-526-210	c 27	N82-11206 *
US-PATENT-CLASS-523-443	c 27	N83-34043 *	US-PATENT-CLASS-526-23	c 27	N78-32256 *	US-PATENT-CLASS-526-211	c 27	N83-34040 *
US-PATENT-CLASS-523-445	c 24	N86-19380 *	US-PATENT-CLASS-526-255	c 27	N76-24405 *	US-PATENT-CLASS-526-220	c 27	N84-22746 *
US-PATENT-CLASS-523-445	c 27	N86-27451 *	US-PATENT-CLASS-526-259	c 27	N83-34040 *	US-PATENT-CLASS-526-220	c 27	N85-20123 *
US-PATENT-CLASS-523-454	c 24	N84-34571 *	US-PATENT-CLASS-526-261	c 27	N80-24438 *	US-PATENT-CLASS-526-220	c 24	N86-25416 *
US-PATENT-CLASS-523-454	c 27	N85-34282 *	US-PATENT-CLASS-526-262	c 27	N81-27272 *	US-PATENT-CLASS-526-220	c 27	N87-21112 *
US-PATENT-CLASS-523-456	c 24	N84-11213 *	US-PATENT-CLASS-526-262	c 27	N84-22745 *	US-PATENT-CLASS-526-221	c 27	N79-28307 *
US-PATENT-CLASS-523-458	c 24	N84-34571 *	US-PATENT-CLASS-526-262	c 27	N84-27885 *	US-PATENT-CLASS-526-222	c 27	N81-29229 *
US-PATENT-CLASS-523-458	c 27	N85-34282 *	US-PATENT-CLASS-526-262	c 27	N85-21347 *	US-PATENT-CLASS-526-222	c 27	N83-34040 *
US-PATENT-CLASS-523-461	c 27	N86-27451 *	US-PATENT-CLASS-526-262	c 27	N85-21350 *	US-PATENT-CLASS-526-222	c 27	N83-34041 *
US-PATENT-CLASS-523-66468	c 24	N86-19380 *	US-PATENT-CLASS-526-262	c 27	N85-21351 *	US-PATENT-CLASS-526-222	c 27	N86-29039 *
US-PATENT-CLASS-524-104	c 27	N83-28240 *	US-PATENT-CLASS-526-262	c 27	N85-21352 *	US-PATENT-CLASS-526-223	c 27	N79-28307 *
US-PATENT-CLASS-524-171	c 27	N84-22747 *	US-PATENT-CLASS-526-262	c 25	N85-28982 *	US-PATENT-CLASS-526-225	c 27	N82-11206 *
US-PATENT-CLASS-524-173	c 27	N83-28240 *	US-PATENT-CLASS-526-262	c 25	N85-30039 *	US-PATENT-CLASS-526-225	c 27	N83-34041 *
US-PATENT-CLASS-524-233	c 27	N83-28240 *	US-PATENT-CLASS-526-262	c 27	N86-20560 *	US-PATENT-CLASS-526-226	c 27	N85-20124 *
US-PATENT-CLASS-524-371	c 27	N84-14324 *	US-PATENT-CLASS-526-262	c 24	N86-21590 *	US-PATENT-CLASS-526-226	c 27	N85-21348 *
US-PATENT-CLASS-524-388	c 27	N85-29044 *	US-PATENT-CLASS-526-262	c 27	N87-22845 *	US-PATENT-CLASS-526-226	c 27	N79-28307 *
US-PATENT-CLASS-524-404	c 27	N87-22845 *	US-PATENT-CLASS-526-265	c 24	N86-28131 *	US-PATENT-CLASS-526-226	c 27	N82-11206 *
US-PATENT-CLASS-524-436	c 27	N83-19900 *	US-PATENT-CLASS-526-274	c 27	N85-21347 *	US-PATENT-CLASS-526-226	c 27	N83-34041 *
US-PATENT-CLASS-524-437	c 27	N83-19900 *	US-PATENT-CLASS-526-275	c 27	N78-32256 *	US-PATENT-CLASS-526-227	c 27	N81-29229 *
US-PATENT-CLASS-524-494	c 27	N84-14322 *	US-PATENT-CLASS-526-275	c 27	N80-24438 *	US-PATENT-CLASS-526-228	c 27	N82-11206 *
US-PATENT-CLASS-524-496	c 27	N84-14322 *	US-PATENT-CLASS-526-276	c 27	N78-32256 *	US-PATENT-CLASS-526-228	c 27	N83-34040 *
US-PATENT-CLASS-524-500	c 27	N84-14322 *	US-PATENT-CLASS-526-276	c 27	N78-32256 *	US-PATENT-CLASS-526-228	c 27	N84-22745 *
US-PATENT-CLASS-524-503	c 27	N83-19900 *	US-PATENT-CLASS-526-278	c 27	N78-32256 *	US-PATENT-CLASS-526-229	c 27	N79-28307 *
US-PATENT-CLASS-524-530	c 27	N84-14322 *	US-PATENT-CLASS-526-278	c 27	N80-24438 *			

US-PATENT-CLASS-528-229	c 27	N79-33316 *	US-PATENT-CLASS-528-394	c 27	N84-22750 *	US-PATENT-CLASS-55-160	c 15	N71-15968 *
US-PATENT-CLASS-528-229	c 27	N81-29229 *	US-PATENT-CLASS-528-399	c 27	N81-27271 *	US-PATENT-CLASS-55-16	c 06	N72-31140 *
US-PATENT-CLASS-528-229	c 27	N83-34040 *	US-PATENT-CLASS-528-399	c 27	N82-18389 *	US-PATENT-CLASS-55-179	c 14	N71-17588 *
US-PATENT-CLASS-528-229	c 27	N85-21348 *	US-PATENT-CLASS-528-399	c 27	N84-22750 *	US-PATENT-CLASS-55-179	c 54	N77-32722 *
US-PATENT-CLASS-528-229	c 27	N85-21350 *	US-PATENT-CLASS-528-399	c 23	N86-32525 *	US-PATENT-CLASS-55-194	c 35	N83-29652 *
US-PATENT-CLASS-528-229	c 27	N85-21351 *	US-PATENT-CLASS-528-401	c 27	N79-22300 *	US-PATENT-CLASS-55-197	c 23	N77-17161 *
US-PATENT-CLASS-528-229	c 27	N85-21352 *	US-PATENT-CLASS-528-401	c 25	N81-14016 *	US-PATENT-CLASS-55-199	c 34	N74-30608 *
US-PATENT-CLASS-528-229	c 27	N85-34280 *	US-PATENT-CLASS-528-401	c 27	N81-17259 *	US-PATENT-CLASS-55-202	c 35	N83-29652 *
US-PATENT-CLASS-528-229	c 27	N85-34282 *	US-PATENT-CLASS-528-401	c 27	N81-17262 *	US-PATENT-CLASS-55-204	c 15	N71-23023 *
US-PATENT-CLASS-528-229	c 27	N86-19457 *	US-PATENT-CLASS-528-401	c 27	N82-24338 *	US-PATENT-CLASS-55-204	c 44	N83-10501 *
US-PATENT-CLASS-528-229	c 27	N87-21112 *	US-PATENT-CLASS-528-401	c 23	N82-28353 *	US-PATENT-CLASS-55-208	c 14	N71-18483 *
US-PATENT-CLASS-528-229	c 27	N87-22847 *	US-PATENT-CLASS-528-401	c 27	N84-22744 *	US-PATENT-CLASS-55-241	c 35	N79-17192 *
US-PATENT-CLASS-528-239	c 27	N85-20124 *	US-PATENT-CLASS-528-402	c 25	N82-24312 *	US-PATENT-CLASS-55-242	c 35	N79-17192 *
US-PATENT-CLASS-528-241	c 27	N85-20124 *	US-PATENT-CLASS-528-406	c 23	N86-32525 *	US-PATENT-CLASS-55-255	c 35	N86-29174 *
US-PATENT-CLASS-528-258	c 27	N85-20124 *	US-PATENT-CLASS-528-407	c 24	N84-34571 *	US-PATENT-CLASS-55-259	c 35	N86-29174 *
US-PATENT-CLASS-528-25	c 27	N84-22747 *	US-PATENT-CLASS-528-407	c 27	N85-34281 *	US-PATENT-CLASS-55-26-9	c 35	N78-12390 *
US-PATENT-CLASS-528-26	c 27	N84-22747 *	US-PATENT-CLASS-528-407	c 27	N85-34282 *	US-PATENT-CLASS-55-261	c 35	N76-18401 *
US-PATENT-CLASS-528-26	c 27	N87-14516 *	US-PATENT-CLASS-528-407	c 23	N86-32525 *	US-PATENT-CLASS-55-269	c 54	N77-32722 *
US-PATENT-CLASS-528-271	c 27	N84-27884 *	US-PATENT-CLASS-528-413	c 27	N87-24564 *	US-PATENT-CLASS-55-270	c 35	N84-17555 *
US-PATENT-CLASS-528-279	c 27	N85-20124 *	US-PATENT-CLASS-528-422	c 27	N79-22300 *	US-PATENT-CLASS-55-277	c 71	N83-35781 *
US-PATENT-CLASS-528-288	c 27	N85-29043 *	US-PATENT-CLASS-528-422	c 25	N81-14016 *	US-PATENT-CLASS-55-277	c 71	N85-22104 *
US-PATENT-CLASS-528-289	c 27	N85-29043 *	US-PATENT-CLASS-528-422	c 27	N81-17259 *	US-PATENT-CLASS-55-283	c 35	N84-17555 *
US-PATENT-CLASS-528-303	c 27	N85-29043 *	US-PATENT-CLASS-528-422	c 27	N81-17262 *	US-PATENT-CLASS-55-291	c 35	N84-17555 *
US-PATENT-CLASS-528-304	c 27	N85-29043 *	US-PATENT-CLASS-528-422	c 27	N82-24338 *	US-PATENT-CLASS-55-2	c 25	N78-25148 *
US-PATENT-CLASS-528-310	c 27	N81-17262 *	US-PATENT-CLASS-528-422	c 23	N82-28353 *	US-PATENT-CLASS-55-2	c 28	N81-14103 *
US-PATENT-CLASS-528-310	c 27	N81-24256 *	US-PATENT-CLASS-528-422	c 27	N84-22744 *	US-PATENT-CLASS-55-2	c 35	N84-17555 *
US-PATENT-CLASS-528-310	c 27	N82-24338 *	US-PATENT-CLASS-528-423	c 27	N81-17259 *	US-PATENT-CLASS-55-306	c 28	N70-34788 *
US-PATENT-CLASS-528-310	c 27	N84-27884 *	US-PATENT-CLASS-528-423	c 27	N84-22744 *	US-PATENT-CLASS-55-35	c 05	N70-41297 *
US-PATENT-CLASS-528-310	c 23	N86-19376 *	US-PATENT-CLASS-528-481	c 27	N80-24438 *	US-PATENT-CLASS-55-360	c 35	N79-17192 *
US-PATENT-CLASS-528-314	c 25	N85-30039 *	US-PATENT-CLASS-528-4	c 27	N81-27271 *	US-PATENT-CLASS-55-386	c 35	N75-26334 *
US-PATENT-CLASS-528-315	c 27	N85-21350 *	US-PATENT-CLASS-528-4	c 27	N82-18389 *	US-PATENT-CLASS-55-38	c 71	N83-35781 *
US-PATENT-CLASS-528-321	c 27	N85-21347 *	US-PATENT-CLASS-528-6	c 27	N81-27271 *	US-PATENT-CLASS-55-3	c 35	N78-12390 *
US-PATENT-CLASS-528-321	c 24	N86-25416 *	US-PATENT-CLASS-528-6	c 27	N82-18389 *	US-PATENT-CLASS-55-400	c 11	N71-10777 *
US-PATENT-CLASS-528-321	c 27	N86-31726 *	US-PATENT-CLASS-528-6	c 27	N82-22750 *	US-PATENT-CLASS-55-407	c 35	N79-17192 *
US-PATENT-CLASS-528-321	c 27	N87-16909 *	US-PATENT-CLASS-528-73	c 25	N80-16116 *	US-PATENT-CLASS-55-408	c 15	N70-40062 *
US-PATENT-CLASS-528-322	c 27	N81-17260 *	US-PATENT-CLASS-528-7	c 27	N82-18389 *	US-PATENT-CLASS-55-418	c 15	N71-22721 *
US-PATENT-CLASS-528-322	c 27	N84-22745 *	US-PATENT-CLASS-528-7	c 27	N84-22750 *	US-PATENT-CLASS-55-43	c 34	N74-30608 *
US-PATENT-CLASS-528-322	c 27	N84-27885 *	US-PATENT-CLASS-528-86	c 23	N85-28973 *	US-PATENT-CLASS-55-446	c 15	N72-22489 *
US-PATENT-CLASS-528-322	c 27	N85-21347 *	US-PATENT-CLASS-528-92	c 24	N84-34571 *	US-PATENT-CLASS-55-464	c 15	N72-22489 *
US-PATENT-CLASS-528-322	c 27	N85-21350 *	US-PATENT-CLASS-528-92	c 27	N85-34282 *	US-PATENT-CLASS-55-466	c 35	N84-17555 *
US-PATENT-CLASS-528-322	c 27	N85-21351 *	US-PATENT-CLASS-528-94	c 27	N85-34281 *	US-PATENT-CLASS-55-493	c 14	N72-23457 *
US-PATENT-CLASS-528-322	c 27	N85-21352 *	US-PATENT-CLASS-528-94	c 27	N86-19457 *	US-PATENT-CLASS-55-498	c 14	N72-23457 *
US-PATENT-CLASS-528-322	c 25	N85-28982 *	US-PATENT-CLASS-53-102	c 15	N71-21528 *	US-PATENT-CLASS-55-502	c 14	N72-23457 *
US-PATENT-CLASS-528-322	c 25	N85-30039 *	US-PATENT-CLASS-53-112A	c 15	N73-27405 *	US-PATENT-CLASS-55-510	c 25	N74-12813 *
US-PATENT-CLASS-528-322	c 27	N86-19457 *	US-PATENT-CLASS-53-22A	c 15	N73-27405 *	US-PATENT-CLASS-55-518	c 25	N74-12813 *
US-PATENT-CLASS-528-322	c 24	N86-25416 *	US-PATENT-CLASS-53-22	c 15	N71-23256 *	US-PATENT-CLASS-55-521	c 14	N72-23457 *
US-PATENT-CLASS-528-322	c 27	N86-31726 *	US-PATENT-CLASS-53-429	c 09	N82-29330 *	US-PATENT-CLASS-55-521	c 35	N86-29174 *
US-PATENT-CLASS-528-322	c 27	N87-16909 *	US-PATENT-CLASS-53-9	c 37	N77-23482 *	US-PATENT-CLASS-55-523	c 34	N76-27515 *
US-PATENT-CLASS-528-322	c 27	N87-21112 *	US-PATENT-CLASS-536-105	c 27	N77-30236 *	US-PATENT-CLASS-55-526	c 34	N76-27515 *
US-PATENT-CLASS-528-327	c 27	N84-27884 *	US-PATENT-CLASS-536-536-85	c 27	N77-30236 *	US-PATENT-CLASS-55-528	c 35	N86-29174 *
US-PATENT-CLASS-528-327	c 27	N86-19455 *	US-PATENT-CLASS-536-56	c 27	N77-30236 *	US-PATENT-CLASS-55-52	c 71	N83-35781 *
US-PATENT-CLASS-528-327	c 27	N87-21112 *	US-PATENT-CLASS-536-58	c 27	N77-30236 *	US-PATENT-CLASS-55-55	c 06	N72-31140 *
US-PATENT-CLASS-528-328	c 27	N82-24338 *	US-PATENT-CLASS-536-84	c 27	N77-30236 *	US-PATENT-CLASS-55-66	c 25	N80-23383 *
US-PATENT-CLASS-528-331	c 27	N79-28307 *	US-PATENT-CLASS-538-117	c 27	N81-17260 *	US-PATENT-CLASS-55-67	c 23	N77-17161 *
US-PATENT-CLASS-528-331	c 27	N84-27884 *	US-PATENT-CLASS-544-193	c 27	N78-15276 *	US-PATENT-CLASS-55-67	c 25	N80-23383 *
US-PATENT-CLASS-528-331	c 27	N87-21112 *	US-PATENT-CLASS-544-193	c 27	N79-28307 *	US-PATENT-CLASS-55-68	c 25	N80-23383 *
US-PATENT-CLASS-528-336	c 27	N79-28307 *	US-PATENT-CLASS-544-195	c 27	N78-32256 *	US-PATENT-CLASS-55-6	c 35	N84-17555 *
US-PATENT-CLASS-528-336	c 27	N85-20123 *	US-PATENT-CLASS-544-215	c 27	N84-22744 *	US-PATENT-CLASS-55-72	c 25	N80-23383 *
US-PATENT-CLASS-528-336	c 27	N85-21350 *	US-PATENT-CLASS-546-262	c 27	N87-22847 *	US-PATENT-CLASS-55-73	c 45	N79-12584 *
US-PATENT-CLASS-528-336	c 27	N86-32568 *	US-PATENT-CLASS-546-264	c 27	N87-22847 *	US-PATENT-CLASS-55-74	c 23	N77-17161 *
US-PATENT-CLASS-528-337	c 27	N79-28307 *	US-PATENT-CLASS-546-339	c 27	N87-16908 *	US-PATENT-CLASS-55-75	c 15	N71-26185 *
US-PATENT-CLASS-528-337	c 23	N86-32525 *	US-PATENT-CLASS-546-346	c 27	N87-16908 *	US-PATENT-CLASS-55-96	c 35	N84-17555 *
US-PATENT-CLASS-528-337	c 27	N86-32568 *	US-PATENT-CLASS-546-350	c 27	N87-16908 *	US-PATENT-CLASS-556-410	c 25	N85-21280 *
US-PATENT-CLASS-528-338	c 27	N79-28307 *	US-PATENT-CLASS-547-131	c 23	N82-28353 *	US-PATENT-CLASS-556-436	c 27	N86-21675 *
US-PATENT-CLASS-528-340	c 27	N86-32568 *	US-PATENT-CLASS-548-413	c 27	N83-31854 *	US-PATENT-CLASS-558-145	c 23	N87-28605 *
US-PATENT-CLASS-528-341	c 27	N86-29039 *	US-PATENT-CLASS-548-413	c 23	N86-19376 *	US-PATENT-CLASS-558-190	c 23	N87-28605 *
US-PATENT-CLASS-528-342	c 27	N79-28307 *	US-PATENT-CLASS-548-413	c 27	N87-23751 *	US-PATENT-CLASS-558-193	c 23	N87-28605 *
US-PATENT-CLASS-528-342	c 27	N84-27885 *	US-PATENT-CLASS-548-415	c 27	N83-31854 *	US-PATENT-CLASS-56-73	c 74	N86-26190 *
US-PATENT-CLASS-528-342	c 27	N85-21350 *	US-PATENT-CLASS-548-415	c 27	N84-22745 *	US-PATENT-CLASS-560-104	c 27	N87-16907 *
US-PATENT-CLASS-528-342	c 27	N85-21351 *	US-PATENT-CLASS-549-335	c 23	N85-33187 *	US-PATENT-CLASS-564-113	c 23	N86-19376 *
US-PATENT-CLASS-528-342	c 27	N85-21352 *	US-PATENT-CLASS-55-DIG.25	c 35	N84-17555 *	US-PATENT-CLASS-564-15	c 27	N86-32568 *
US-PATENT-CLASS-528-342	c 25	N85-28982 *	US-PATENT-CLASS-55-DIG.30	c 35	N84-17555 *	US-PATENT-CLASS-564-229	c 27	N81-24256 *
US-PATENT-CLASS-528-342	c 27	N86-19457 *	US-PATENT-CLASS-55-DIG.35	c 54	N75-27761 *	US-PATENT-CLASS-564-229	c 23	N82-28353 *
US-PATENT-CLASS-528-345	c 27	N84-22746 *	US-PATENT-CLASS-55-DIG.42	c 37	N85-29283 *	US-PATENT-CLASS-564-243	c 27	N84-22744 *
US-PATENT-CLASS-528-345	c 27	N85-20123 *	US-PATENT-CLASS-55-100	c 35	N78-12390 *	US-PATENT-CLASS-564-243	c 23	N86-21582 *
US-PATENT-CLASS-528-347	c 27	N86-32568 *	US-PATENT-CLASS-55-100	c 25	N78-25148 *	US-PATENT-CLASS-564-330	c 27	N87-22847 *
US-PATENT-CLASS-528-348	c 27	N84-22746 *	US-PATENT-CLASS-55-101	c 25	N78-25148 *	US-PATENT-CLASS-564-396	c 27	N87-22847 *
US-PATENT-CLASS-528-351	c 27	N82-11206 *	US-PATENT-CLASS-55-105	c 35	N84-17555 *	US-PATENT-CLASS-564-430	c 27	N87-22847 *
US-PATENT-CLASS-528-352	c 27	N85-21348 *	US-PATENT-CLASS-55-118	c 35	N79-17192 *	US-PATENT-CLASS-568-14	c 27	N86-32568 *
US-PATENT-CLASS-528-352	c 27	N85-34280 *	US-PATENT-CLASS-55-122	c 35	N79-17192 *	US-PATENT-CLASS-568-2	c 27	N82-18389 *
US-PATENT-CLASS-528-352	c 27	N86-19456 *	US-PATENT-CLASS-55-126	c 35	N84-17555 *	US-PATENT-CLASS-568-445	c 23	N82-16174 *
US-PATENT-CLASS-528-352	c 23	N86-32525 *	US-PATENT-CLASS-55-127	c 35	N79-17192 *	US-PATENT-CLASS-568-497	c 23	N82-16174 *
US-PATENT-CLASS-528-353	c 27	N81-19296 *	US-PATENT-CLASS-55-12	c 35	N84-17555 *	US-PATENT-CLASS-568-4	c 27	N82-18389 *
US-PATENT-CLASS-528-353	c 27	N82-11206 *	US-PATENT-CLASS-55-131	c 35	N84-17555 *	US-PATENT-CLASS-568-4	c 27	N84-22750 *
US-PATENT-CLASS-528-353	c 27	N85-21348 *	US-PATENT-CLASS-55-138	c 35	N84-17555 *	US-PATENT-CLASS-568-5	c 27	N82-18389 *
US-PATENT-CLASS-528-353	c 27	N85-34280 *	US-PATENT-CLASS-55-139	c 35	N84-17555 *	US-PATENT-CLASS-568-5	c 27	N84-22750 *
US-PATENT-CLASS-528-353	c 27	N86-19456 *	US-PATENT-CLASS-55-145	c 35	N84-17555 *	US-PATENT-CLASS-568-852	c 27	N80-32514 *
US-PATENT-CLASS-528-361	c 24	N84-11213 *	US-PATENT-CLASS-55-15-8	c 52	N79-17449 *	US-PATENT-CLASS-568-861	c 27	N80-32514 *
US-PATENT-CLASS-528-362	c 25	N81-14016 *	US-PATENT-CLASS-55-155	c 35	N79-17192 *	US-PATENT-CLASS-57-906	c 37	N82-18601 *
US-PATENT-CLASS-528-362	c 27	N81-17259 *	US-PATENT-CLASS-55-158	c 18	N71-20742 *	US-PATENT-CLASS-570-123	c 25	N82-24312 *
US-PATENT-CLASS-528-362	c 27	N81-17262 *	US-PATENT-CLASS-55-158	c 44	N77-22607 *	US-PATENT-CLASS-570-129	c 25	N82-24312 *
US-PATENT-CLASS-528-362	c 27	N82-24338 *	US-PATENT-CLASS-55-158	c 25	N82-21269 *	US-PATENT-CLASS-58-24	c 10	N71-26326 *
US-PATENT-CLASS-528-362	c 27	N84-22744 *	US-PATENT-CLASS-55-159	c 34	N74-30608 *	US-PATENT-CLASS-585-24	c 27	N86-21675 *
US-PATENT-CLASS-528-362	c 27	N84-27884 *	US-PATENT-CLASS-55-159	c 37	N79-21345 *	US-PATENT-CLASS-60-39.08	c 37	N79-11403 *
US-PATENT-CLASS-528-362	c 27	N87-21112 *	US-PATENT-CLASS-55-15	c 71	N83-35781 *	US-PATENT-CLASS-60-108	c 33	N71-16104 *
US-PATENT-CLASS-528-38	c 27	N83-34040 *	US-PATENT-CLASS-55-15	c 71	N85-22104 *	US-PATENT-CLASS-60-1	c 15	N72-33477 *

US-PATENT-CLASS-60-1	c 15	N73-13467 *	US-PATENT-CLASS-60-265	c 33	N73-25952 *	US-PATENT-CLASS-60-39.31	c 07	N79-14096 *
US-PATENT-CLASS-60-200A	c 33	N72-25911 *	US-PATENT-CLASS-60-265	c 20	N76-14191 *	US-PATENT-CLASS-60-39.33	c 44	N78-32539 *
US-PATENT-CLASS-60-200A	c 33	N73-25952 *	US-PATENT-CLASS-60-266	c 33	N71-28852 *	US-PATENT-CLASS-60-39.36	c 28	N71-20330 *
US-PATENT-CLASS-60-200A	c 27	N78-17206 *	US-PATENT-CLASS-60-266	c 28	N72-23810 *	US-PATENT-CLASS-60-39.36	c 28	N71-28915 *
US-PATENT-CLASS-60-200R	c 20	N82-18314 *	US-PATENT-CLASS-60-267	c 33	N71-29053 *	US-PATENT-CLASS-60-39.46M	c 20	N82-18314 *
US-PATENT-CLASS-60-200	c 28	N71-14044 *	US-PATENT-CLASS-60-267	c 33	N72-25911 *	US-PATENT-CLASS-60-39.465	c 20	N86-26368 *
US-PATENT-CLASS-60-202	c 28	N70-41922 *	US-PATENT-CLASS-60-267	c 33	N73-25952 *	US-PATENT-CLASS-60-39.46	c 27	N71-15635 *
US-PATENT-CLASS-60-202	c 28	N71-10574 *	US-PATENT-CLASS-60-267	c 28	N73-32606 *	US-PATENT-CLASS-60-39.46	c 15	N74-27360 *
US-PATENT-CLASS-60-202	c 25	N71-21694 *	US-PATENT-CLASS-60-267	c 20	N76-14191 *	US-PATENT-CLASS-60-39.47	c 27	N71-16392 *
US-PATENT-CLASS-60-202	c 28	N71-21822 *	US-PATENT-CLASS-60-267	c 34	N79-13288 *	US-PATENT-CLASS-60-39.48	c 28	N70-38199 *
US-PATENT-CLASS-60-202	c 28	N71-23081 *	US-PATENT-CLASS-60-267	c 34	N79-13289 *	US-PATENT-CLASS-60-39.48	c 28	N70-39931 *
US-PATENT-CLASS-60-202	c 28	N71-23293 *	US-PATENT-CLASS-60-267	c 34	N80-24573 *	US-PATENT-CLASS-60-39.48	c 27	N71-28929 *
US-PATENT-CLASS-60-202	c 28	N71-25213 *	US-PATENT-CLASS-60-267	c 44	N81-24519 *	US-PATENT-CLASS-60-39.51R	c 25	N78-10224 *
US-PATENT-CLASS-60-202	c 28	N71-26173 *	US-PATENT-CLASS-60-267	c 05	N81-26114 *	US-PATENT-CLASS-60-39.52	c 07	N78-25089 *
US-PATENT-CLASS-60-202	c 28	N71-26642 *	US-PATENT-CLASS-60-269	c 07	N83-33884 *	US-PATENT-CLASS-60-39.65	c 28	N71-28915 *
US-PATENT-CLASS-60-202	c 28	N71-26781 *	US-PATENT-CLASS-60-26	c 21	N72-31637 *	US-PATENT-CLASS-60-39.65	c 23	N73-30665 *
US-PATENT-CLASS-60-202	c 28	N72-11709 *	US-PATENT-CLASS-60-26	c 03	N73-20040 *	US-PATENT-CLASS-60-39.65	c 34	N78-27357 *
US-PATENT-CLASS-60-202	c 28	N72-22770 *	US-PATENT-CLASS-60-271	c 28	N72-11708 *	US-PATENT-CLASS-60-39.66	c 15	N70-36411 *
US-PATENT-CLASS-60-202	c 28	N72-22771 *	US-PATENT-CLASS-60-271	c 28	N72-23810 *	US-PATENT-CLASS-60-39.66	c 23	N73-30665 *
US-PATENT-CLASS-60-202	c 28	N73-24783 *	US-PATENT-CLASS-60-271	c 07	N78-17055 *	US-PATENT-CLASS-60-39.66	c 07	N77-23106 *
US-PATENT-CLASS-60-202	c 25	N73-25760 *	US-PATENT-CLASS-60-271	c 37	N78-17384 *	US-PATENT-CLASS-60-39.66	c 37	N78-10467 *
US-PATENT-CLASS-60-202	c 28	N73-27699 *	US-PATENT-CLASS-60-271	c 07	N83-33884 *	US-PATENT-CLASS-60-39.66	c 37	N79-11403 *
US-PATENT-CLASS-60-202	c 20	N77-10148 *	US-PATENT-CLASS-60-275	c 35	N84-17555 *	US-PATENT-CLASS-60-39.69R	c 34	N78-27357 *
US-PATENT-CLASS-60-202	c 20	N77-20162 *	US-PATENT-CLASS-60-291	c 31	N73-13898 *	US-PATENT-CLASS-60-39.72	c 23	N73-30665 *
US-PATENT-CLASS-60-202	c 20	N85-21256 *	US-PATENT-CLASS-60-300	c 28	N80-10374 *	US-PATENT-CLASS-60-39.74A	c 15	N72-25455 *
US-PATENT-CLASS-60-203.1	c 20	N86-26368 *	US-PATENT-CLASS-60-303	c 35	N84-17555 *	US-PATENT-CLASS-60-39.74R	c 23	N73-30665 *
US-PATENT-CLASS-60-203.1	c 20	N87-16875 *	US-PATENT-CLASS-60-303	c 37	N84-33808 *	US-PATENT-CLASS-60-39.74R	c 20	N76-14190 *
US-PATENT-CLASS-60-203	c 20	N80-14188 *	US-PATENT-CLASS-60-311	c 35	N84-17555 *	US-PATENT-CLASS-60-39.74	c 28	N70-33241 *
US-PATENT-CLASS-60-204	c 07	N78-17055 *	US-PATENT-CLASS-60-316	c 34	N76-18364 *	US-PATENT-CLASS-60-39.74	c 28	N72-17843 *
US-PATENT-CLASS-60-204	c 07	N78-18067 *	US-PATENT-CLASS-60-35.3	c 28	N70-33265 *	US-PATENT-CLASS-60-39.74	c 20	N79-21125 *
US-PATENT-CLASS-60-204	c 44	N81-24519 *	US-PATENT-CLASS-60-35.3	c 28	N70-40367 *	US-PATENT-CLASS-60-39.82E	c 07	N78-24275 *
US-PATENT-CLASS-60-211	c 28	N73-13773 *	US-PATENT-CLASS-60-35.4	c 28	N70-34294 *	US-PATENT-CLASS-60-39.83	c 20	N84-33410 *
US-PATENT-CLASS-60-214	c 15	N74-27360 *	US-PATENT-CLASS-60-35.4	c 28	N70-38645 *	US-PATENT-CLASS-60-39.48	c 28	N72-11709 *
US-PATENT-CLASS-60-215	c 06	N73-30097 *	US-PATENT-CLASS-60-35.4	c 28	N71-29153 *	US-PATENT-CLASS-60-415	c 85	N87-21755 *
US-PATENT-CLASS-60-215	c 15	N74-27360 *	US-PATENT-CLASS-60-35.5	c 28	N70-34162 *	US-PATENT-CLASS-60-508	c 44	N79-18443 *
US-PATENT-CLASS-60-217	c 12	N71-17631 *	US-PATENT-CLASS-60-35.55	c 28	N70-38711 *	US-PATENT-CLASS-60-516	c 20	N75-24837 *
US-PATENT-CLASS-60-225	c 28	N71-10780 *	US-PATENT-CLASS-60-35.55	c 21	N71-15582 *	US-PATENT-CLASS-60-516	c 44	N82-24640 *
US-PATENT-CLASS-60-226A	c 07	N77-17059 *	US-PATENT-CLASS-60-35.5	c 15	N71-28951 *	US-PATENT-CLASS-60-517	c 44	N76-29701 *
US-PATENT-CLASS-60-226A	c 07	N79-14096 *	US-PATENT-CLASS-60-35.5	c 28	N70-33356 *	US-PATENT-CLASS-60-517	c 37	N81-25370 *
US-PATENT-CLASS-60-226A	c 07	N79-14097 *	US-PATENT-CLASS-60-35.5	c 28	N70-34175 *	US-PATENT-CLASS-60-518	c 37	N81-14318 *
US-PATENT-CLASS-60-226A	c 07	N82-26293 *	US-PATENT-CLASS-60-35.5	c 28	N70-36802 *	US-PATENT-CLASS-60-518	c 37	N81-17432 *
US-PATENT-CLASS-60-226R	c 07	N78-18066 *	US-PATENT-CLASS-60-35.5	c 21	N70-36938 *	US-PATENT-CLASS-60-51	c 15	N71-27754 *
US-PATENT-CLASS-60-226R	c 07	N77-14025 *	US-PATENT-CLASS-60-35.5	c 25	N70-36946 *	US-PATENT-CLASS-60-520	c 37	N80-31790 *
US-PATENT-CLASS-60-226R	c 07	N77-28118 *	US-PATENT-CLASS-60-35.5	c 28	N70-37245 *	US-PATENT-CLASS-60-524	c 44	N81-17518 *
US-PATENT-CLASS-60-226R	c 07	N78-17055 *	US-PATENT-CLASS-60-35.5	c 28	N70-37980 *	US-PATENT-CLASS-60-525	c 37	N81-25370 *
US-PATENT-CLASS-60-226R	c 07	N78-17056 *	US-PATENT-CLASS-60-35.5	c 28	N71-14043 *	US-PATENT-CLASS-60-527	c 44	N74-33379 *
US-PATENT-CLASS-60-226R	c 07	N78-25089 *	US-PATENT-CLASS-60-35.5	c 28	N71-15661 *	US-PATENT-CLASS-60-527	c 37	N77-12402 *
US-PATENT-CLASS-60-226R	c 07	N79-14096 *	US-PATENT-CLASS-60-35.60	c 28	N71-15659 *	US-PATENT-CLASS-60-527	c 37	N77-19458 *
US-PATENT-CLASS-60-226R	c 07	N81-19116 *	US-PATENT-CLASS-60-35.6	c 28	N70-33284 *	US-PATENT-CLASS-60-527	c 37	N78-31426 *
US-PATENT-CLASS-60-228	c 07	N77-17059 *	US-PATENT-CLASS-60-35.6	c 28	N70-33331 *	US-PATENT-CLASS-60-527	c 37	N86-19604 *
US-PATENT-CLASS-60-230	c 07	N78-27121 *	US-PATENT-CLASS-60-35.6	c 28	N70-33374 *	US-PATENT-CLASS-60-528	c 37	N86-19604 *
US-PATENT-CLASS-60-236	c 07	N81-19116 *	US-PATENT-CLASS-60-35.6	c 28	N70-33375 *	US-PATENT-CLASS-60-530	c 20	N75-24837 *
US-PATENT-CLASS-60-238	c 07	N81-19116 *	US-PATENT-CLASS-60-35.6	c 28	N70-34860 *	US-PATENT-CLASS-60-53	c 37	N77-22479 *
US-PATENT-CLASS-60-239	c 07	N81-19116 *	US-PATENT-CLASS-60-35.6	c 28	N70-35381 *	US-PATENT-CLASS-60-54.5	c 15	N71-10658 *
US-PATENT-CLASS-60-23	c 09	N71-26182 *	US-PATENT-CLASS-60-35.6	c 27	N70-35534 *	US-PATENT-CLASS-60-560	c 35	N78-10428 *
US-PATENT-CLASS-60-23	c 15	N72-12409 *	US-PATENT-CLASS-60-35.6	c 15	N70-36535 *	US-PATENT-CLASS-60-572	c 44	N79-18443 *
US-PATENT-CLASS-60-23	c 21	N72-31637 *	US-PATENT-CLASS-60-35.6	c 28	N70-36806 *	US-PATENT-CLASS-60-574	c 35	N78-10428 *
US-PATENT-CLASS-60-23	c 15	N73-13467 *	US-PATENT-CLASS-60-35.6	c 28	N70-36910 *	US-PATENT-CLASS-60-606	c 28	N80-10374 *
US-PATENT-CLASS-60-240	c 28	N71-24736 *	US-PATENT-CLASS-60-35.6	c 28	N70-38249 *	US-PATENT-CLASS-60-606	c 37	N84-33808 *
US-PATENT-CLASS-60-240	c 28	N73-13773 *	US-PATENT-CLASS-60-35.6	c 28	N70-38504 *	US-PATENT-CLASS-60-632	c 20	N80-18097 *
US-PATENT-CLASS-60-240	c 07	N80-18039 *	US-PATENT-CLASS-60-35.6	c 28	N70-38505 *	US-PATENT-CLASS-60-634	c 37	N87-23983 *
US-PATENT-CLASS-60-243	c 33	N71-21507 *	US-PATENT-CLASS-60-35.6	c 28	N70-38710 *	US-PATENT-CLASS-60-638	c 37	N87-23983 *
US-PATENT-CLASS-60-243	c 15	N71-27432 *	US-PATENT-CLASS-60-35.6	c 28	N70-39899 *	US-PATENT-CLASS-60-641.12	c 44	N84-23018 *
US-PATENT-CLASS-60-243	c 28	N73-13773 *	US-PATENT-CLASS-60-35.6	c 33	N71-15623 *	US-PATENT-CLASS-60-641.14	c 44	N82-24640 *
US-PATENT-CLASS-60-243	c 20	N79-21124 *	US-PATENT-CLASS-60-35.6	c 27	N71-15634 *	US-PATENT-CLASS-60-641	c 44	N75-32581 *
US-PATENT-CLASS-60-251	c 28	N70-41311 *	US-PATENT-CLASS-60-35.6	c 31	N71-15637 *	US-PATENT-CLASS-60-641	c 44	N77-32582 *
US-PATENT-CLASS-60-251	c 27	N71-21819 *	US-PATENT-CLASS-60-35.6	c 31	N71-15647 *	US-PATENT-CLASS-60-641	c 44	N78-17460 *
US-PATENT-CLASS-60-254	c 28	N72-20758 *	US-PATENT-CLASS-60-35.6	c 28	N71-15680 *	US-PATENT-CLASS-60-641	c 44	N78-32542 *
US-PATENT-CLASS-60-254	c 28	N73-24784 *	US-PATENT-CLASS-60-35.6	c 14	N71-27186 *	US-PATENT-CLASS-60-641	c 44	N79-18443 *
US-PATENT-CLASS-60-256	c 28	N73-24784 *	US-PATENT-CLASS-60-36	c 15	N72-33477 *	US-PATENT-CLASS-60-641	c 44	N81-17518 *
US-PATENT-CLASS-60-257	c 31	N70-41948 *	US-PATENT-CLASS-60-37	c 15	N73-13467 *	US-PATENT-CLASS-60-645	c 34	N79-20335 *
US-PATENT-CLASS-60-258	c 15	N70-22192 *	US-PATENT-CLASS-60-39.02	c 07	N86-20389 *	US-PATENT-CLASS-60-649	c 34	N79-20335 *
US-PATENT-CLASS-60-258	c 28	N71-22983 *	US-PATENT-CLASS-60-39.03	c 07	N77-23106 *	US-PATENT-CLASS-60-659	c 44	N75-32581 *
US-PATENT-CLASS-60-258	c 28	N71-28849 *	US-PATENT-CLASS-60-39.03	c 07	N80-18039 *	US-PATENT-CLASS-60-659	c 44	N76-31667 *
US-PATENT-CLASS-60-258	c 28	N72-17843 *	US-PATENT-CLASS-60-39.06	c 07	N80-26298 *	US-PATENT-CLASS-60-671	c 44	N78-32542 *
US-PATENT-CLASS-60-258	c 15	N72-25455 *	US-PATENT-CLASS-60-39.06	c 07	N81-29129 *	US-PATENT-CLASS-60-698	c 44	N84-23018 *
US-PATENT-CLASS-60-258	c 20	N74-13502 *	US-PATENT-CLASS-60-39.07	c 44	N78-32539 *	US-PATENT-CLASS-60-716	c 44	N84-23018 *
US-PATENT-CLASS-60-258	c 20	N87-14420 *	US-PATENT-CLASS-60-39.07	c 07	N82-32366 *	US-PATENT-CLASS-60-721	c 71	N79-20827 *
US-PATENT-CLASS-60-259	c 28	N70-41275 *	US-PATENT-CLASS-60-39.07	c 07	N83-36029 *	US-PATENT-CLASS-60-721	c 71	N83-32515 *
US-PATENT-CLASS-60-259	c 20	N74-13502 *	US-PATENT-CLASS-60-39.07	c 07	N86-20389 *	US-PATENT-CLASS-60-721	c 71	N83-32516 *
US-PATENT-CLASS-60-259	c 34	N77-30399 *	US-PATENT-CLASS-60-39.14	c 44	N78-32539 *	US-PATENT-CLASS-60-721	c 71	N84-23233 *
US-PATENT-CLASS-60-259	c 20	N80-14188 *	US-PATENT-CLASS-60-39.14	c 07	N79-10057 *	US-PATENT-CLASS-60-726	c 07	N81-29129 *
US-PATENT-CLASS-60-259	c 05	N81-26114 *	US-PATENT-CLASS-60-39.23	c 20	N76-14190 *	US-PATENT-CLASS-60-726	c 07	N82-32366 *
US-PATENT-CLASS-60-25	c 15	N73-24513 *	US-PATENT-CLASS-60-39.23	c 07	N85-35195 *	US-PATENT-CLASS-60-730	c 05	N81-26114 *
US-PATENT-CLASS-60-25	c 37	N74-21060 *	US-PATENT-CLASS-60-39.24	c 07	N81-19115 *	US-PATENT-CLASS-60-730	c 37	N84-22958 *
US-PATENT-CLASS-60-260	c 28	N70-41992 *	US-PATENT-CLASS-60-39.27	c 07	N80-18039 *	US-PATENT-CLASS-60-733	c 07	N80-26298 *
US-PATENT-CLASS-60-260	c 28	N72-18766 *	US-PATENT-CLASS-60-39.28R	c 28	N73-19793 *	US-PATENT-CLASS-60-736	c 37	N84-22958 *
US-PATENT-CLASS-60-261	c 37	N78-17384 *	US-PATENT-CLASS-60-39.28R	c 07	N77-23106 *	US-PATENT-CLASS-60-736	c 07	N86-20389 *
US-PATENT-CLASS-60-262	c 37	N78-17384 *	US-PATENT-CLASS-60-39.28R	c 37	N78-10467 *	US-PATENT-CLASS-60-737	c 07	N81-29129 *
US-PATENT-CLASS-60-262	c 07	N78-18067 *	US-PATENT-CLASS-60-39.28R	c 37	N78-24545 *	US-PATENT-CLASS-60-746	c 07	N80-26298 *
US-PATENT-CLASS-60-262	c 07	N83-33884 *	US-PATENT-CLASS-60-39.28R	c 37	N79-11403 *	US-PATENT-CLASS-60-746	c 20	N87-14420 *
US-PATENT-CLASS-60-263	c 28	N71-24321 *	US-PATENT-CLASS-60-39.29	c 20	N76-14190 *	US-PATENT-CLASS-60-748	c 07	N85-35195 *
US-PATENT-CLASS-60-263	c 07	N77-28118 *	US-PATENT-CLASS-60-39.29	c 35	N76-14431 *	US-PATENT-CLASS-60-757	c 07	N84-24577 *
US-PATENT-CLASS-60-264	c 07	N80-32392 *	US-PATENT-CLASS-60-39.29	c 05	N82-32366 *	US-PATENT-CLASS-60-836	c 24	N78-14096 *
US-PATENT-CLASS-60-265	c 28	N71-20942 *	US-PATENT-CLASS-60-39.29	c 07	N84-33410 *	US-PATENT-CLASS-60-97	c 03	N71-12260 *
US-PATENT-CLASS-60-265	c 33	N72-25911 *	US-PATENT-CLASS-60-39.31	c 07	N78-18066 *	US-PATENT-CLASS-604-114	c 52	N83-27577 *

US-PATENT-CLASS-604-151	c 52	N83-27577 *	US-PATENT-CLASS-62-62	c 34	N83-34221 *	US-PATENT-CLASS-72-61	c 15	N71-26346 *
US-PATENT-CLASS-604-280	c 52	N83-21785 *	US-PATENT-CLASS-62-6	c 15	N69-23190 #	US-PATENT-CLASS-72-63	c 20	N75-18310 *
US-PATENT-CLASS-604-368	c 54	N84-11758 *	US-PATENT-CLASS-62-6	c 23	N71-15467 *	US-PATENT-CLASS-72-63	c 37	N76-14461 *
US-PATENT-CLASS-604-378	c 54	N84-11758 *	US-PATENT-CLASS-62-6	c 15	N71-23025 *	US-PATENT-CLASS-72-83	c 15	N71-22723 *
US-PATENT-CLASS-604-396	c 54	N84-11758 *	US-PATENT-CLASS-62-6	c 23	N72-25619 *	US-PATENT-CLASS-73-DIG.11	c 35	N78-18390 *
US-PATENT-CLASS-604-8	c 52	N83-21785 *	US-PATENT-CLASS-62-6	c 37	N76-29590 *	US-PATENT-CLASS-73-1-DV	c 71	N86-21276 *
US-PATENT-CLASS-61-83	c 18	N74-22136 *	US-PATENT-CLASS-62-6	c 44	N76-29701 *	US-PATENT-CLASS-73-1-DV	c 71	N87-21653 *
US-PATENT-CLASS-62-DIG.1	c 34	N84-22903 *	US-PATENT-CLASS-62-6	c 44	N83-28574 *	US-PATENT-CLASS-73-1B	c 35	N76-24523 *
US-PATENT-CLASS-62-DIG.5	c 05	N81-26114 *	US-PATENT-CLASS-62-6	c 31	N85-21404 *	US-PATENT-CLASS-73-1B	c 35	N84-28019 *
US-PATENT-CLASS-62-100	c 34	N77-19353 *	US-PATENT-CLASS-62-78	c 51	N79-10694 *	US-PATENT-CLASS-73-1DV	c 14	N73-27379 *
US-PATENT-CLASS-62-100	c 28	N78-24365 *	US-PATENT-CLASS-62-7	c 15	N73-12486 *	US-PATENT-CLASS-73-1F	c 35	N74-21019 *
US-PATENT-CLASS-62-121	c 34	N77-19353 *	US-PATENT-CLASS-62-80	c 23	N72-25619 *	US-PATENT-CLASS-73-1R	c 14	N71-29134 *
US-PATENT-CLASS-62-128	c 35	N84-28018 *	US-PATENT-CLASS-62-85	c 23	N72-25619 *	US-PATENT-CLASS-73-1R	c 35	N75-15932 *
US-PATENT-CLASS-62-129	c 31	N76-14284 *	US-PATENT-CLASS-62-89	c 05	N73-26071 *	US-PATENT-CLASS-73-1R	c 35	N76-15432 *
US-PATENT-CLASS-62-12	c 28	N81-14103 *	US-PATENT-CLASS-62-93	c 15	N69-21465 #	US-PATENT-CLASS-73-100	c 15	N70-41993 *
US-PATENT-CLASS-62-148	c 44	N82-26776 *	US-PATENT-CLASS-62-93	c 03	N72-28025 *	US-PATENT-CLASS-73-100	c 32	N72-25877 *
US-PATENT-CLASS-62-15	c 06	N70-34946 *	US-PATENT-CLASS-62-93	c 77	N75-20139 *	US-PATENT-CLASS-73-103	c 15	N71-17696 *
US-PATENT-CLASS-62-176	c 05	N73-26071 *	US-PATENT-CLASS-64-18	c 15	N71-28467 *	US-PATENT-CLASS-73-103	c 14	N72-27412 *
US-PATENT-CLASS-62-18	c 28	N81-14103 *	US-PATENT-CLASS-64-27	c 15	N71-28959 *	US-PATENT-CLASS-73-103	c 14	N73-32323 *
US-PATENT-CLASS-62-207	c 05	N73-26071 *	US-PATENT-CLASS-64-28	c 15	N69-27505 #	US-PATENT-CLASS-73-103	c 35	N76-18400 *
US-PATENT-CLASS-62-209	c 05	N73-26071 *	US-PATENT-CLASS-65-DIG.11	c 37	N74-21063 *	US-PATENT-CLASS-73-104	c 35	N74-32879 *
US-PATENT-CLASS-62-217	c 31	N77-10229 *	US-PATENT-CLASS-65-DIG.4	c 71	N78-10837 *	US-PATENT-CLASS-73-105	c 14	N70-34161 *
US-PATENT-CLASS-62-235.1	c 44	N82-26776 *	US-PATENT-CLASS-65-DIG.7	c 71	N78-10837 *	US-PATENT-CLASS-73-105	c 14	N71-17586 *
US-PATENT-CLASS-62-238.3	c 44	N82-26776 *	US-PATENT-CLASS-65-102	c 71	N78-10837 *	US-PATENT-CLASS-73-115	c 35	N79-14345 *
US-PATENT-CLASS-62-239	c 44	N82-26776 *	US-PATENT-CLASS-65-108	c 35	N77-24455 *	US-PATENT-CLASS-73-115	c 07	N84-22559 *
US-PATENT-CLASS-62-244	c 44	N82-26776 *	US-PATENT-CLASS-65-11.1	c 31	N86-21718 *	US-PATENT-CLASS-73-116	c 11	N70-33278 *
US-PATENT-CLASS-62-259	c 05	N73-20137 *	US-PATENT-CLASS-65-12	c 31	N86-21718 *	US-PATENT-CLASS-73-116	c 11	N70-34844 *
US-PATENT-CLASS-62-259	c 05	N73-26071 *	US-PATENT-CLASS-65-134	c 71	N83-35781 *	US-PATENT-CLASS-73-116	c 14	N70-40203 *
US-PATENT-CLASS-62-259	c 54	N78-32721 *	US-PATENT-CLASS-65-134	c 27	N87-21111 *	US-PATENT-CLASS-73-116	c 11	N70-41677 *
US-PATENT-CLASS-62-264	c 34	N84-22903 *	US-PATENT-CLASS-65-136	c 27	N87-21111 *	US-PATENT-CLASS-73-116	c 11	N71-10604 *
US-PATENT-CLASS-62-268	c 14	N71-20427 *	US-PATENT-CLASS-65-13	c 27	N87-21111 *	US-PATENT-CLASS-73-116	c 31	N71-15643 *
US-PATENT-CLASS-62-268	c 34	N79-20336 *	US-PATENT-CLASS-65-142	c 31	N81-33319 *	US-PATENT-CLASS-73-117.1	c 11	N72-27262 *
US-PATENT-CLASS-62-269	c 34	N77-19353 *	US-PATENT-CLASS-65-142	c 27	N82-28442 *	US-PATENT-CLASS-73-117.1	c 09	N84-27749 *
US-PATENT-CLASS-62-285	c 77	N75-20139 *	US-PATENT-CLASS-65-142	c 31	N83-31896 *	US-PATENT-CLASS-73-117.4	c 14	N71-20429 *
US-PATENT-CLASS-62-288	c 77	N75-20139 *	US-PATENT-CLASS-65-142	c 31	N83-35176 *	US-PATENT-CLASS-73-117.4	c 28	N71-27094 *
US-PATENT-CLASS-62-289	c 77	N75-20139 *	US-PATENT-CLASS-65-142	c 31	N84-28568 *	US-PATENT-CLASS-73-117.4	c 35	N75-29382 *
US-PATENT-CLASS-62-290	c 77	N75-20139 *	US-PATENT-CLASS-65-142	c 26	N86-32551 *	US-PATENT-CLASS-73-117	c 14	N71-22965 *
US-PATENT-CLASS-62-295	c 35	N83-32026 *	US-PATENT-CLASS-65-160	c 71	N84-28568 *	US-PATENT-CLASS-73-12	c 14	N71-23225 *
US-PATENT-CLASS-62-2	c 15	N71-15906 *	US-PATENT-CLASS-65-1	c 31	N86-21718 *	US-PATENT-CLASS-73-12	c 14	N71-26161 *
US-PATENT-CLASS-62-315	c 34	N77-19353 *	US-PATENT-CLASS-65-21.2	c 26	N86-32551 *	US-PATENT-CLASS-73-12	c 14	N72-16282 *
US-PATENT-CLASS-62-317	c 77	N75-20139 *	US-PATENT-CLASS-65-21.3	c 31	N83-35176 *	US-PATENT-CLASS-73-12	c 14	N72-25411 *
US-PATENT-CLASS-62-376	c 31	N78-17237 *	US-PATENT-CLASS-65-21.3	c 71	N84-28568 *	US-PATENT-CLASS-73-12	c 14	N73-32327 *
US-PATENT-CLASS-62-376	c 34	N79-20336 *	US-PATENT-CLASS-65-21.4	c 31	N81-33319 *	US-PATENT-CLASS-73-12	c 35	N74-21062 *
US-PATENT-CLASS-62-383	c 33	N82-24419 *	US-PATENT-CLASS-65-21.4	c 27	N82-28442 *	US-PATENT-CLASS-73-12	c 35	N75-33367 *
US-PATENT-CLASS-62-384	c 23	N71-24725 *	US-PATENT-CLASS-65-21.4	c 31	N83-35176 *	US-PATENT-CLASS-73-12	c 75	N76-14931 *
US-PATENT-CLASS-62-384	c 31	N87-21159 *	US-PATENT-CLASS-65-21.4	c 71	N84-28568 *	US-PATENT-CLASS-73-12	c 35	N77-18417 *
US-PATENT-CLASS-62-3	c 20	N75-24837 *	US-PATENT-CLASS-65-213	c 71	N84-16940 *	US-PATENT-CLASS-73-12	c 43	N79-25443 *
US-PATENT-CLASS-62-3	c 34	N78-17335 *	US-PATENT-CLASS-65-214	c 31	N83-31896 *	US-PATENT-CLASS-73-12	c 43	N80-14423 *
US-PATENT-CLASS-62-3	c 34	N83-29625 *	US-PATENT-CLASS-65-22	c 31	N81-33319 *	US-PATENT-CLASS-73-12	c 43	N80-23711 *
US-PATENT-CLASS-62-3	c 31	N85-29082 *	US-PATENT-CLASS-65-22	c 27	N82-28442 *	US-PATENT-CLASS-73-12	c 37	N84-33807 *
US-PATENT-CLASS-62-40	c 15	N71-24044 *	US-PATENT-CLASS-65-22	c 31	N83-31896 *	US-PATENT-CLASS-73-133R	c 35	N77-14407 *
US-PATENT-CLASS-62-40	c 28	N81-14103 *	US-PATENT-CLASS-65-22	c 31	N83-35176 *	US-PATENT-CLASS-73-133	c 14	N71-23725 *
US-PATENT-CLASS-62-45	c 15	N70-33323 *	US-PATENT-CLASS-65-2	c 71	N78-10837 *	US-PATENT-CLASS-73-133	c 15	N72-22482 *
US-PATENT-CLASS-62-45	c 31	N70-41871 *	US-PATENT-CLASS-65-2	c 31	N86-21718 *	US-PATENT-CLASS-73-134	c 14	N70-40201 *
US-PATENT-CLASS-62-45	c 33	N71-25351 *	US-PATENT-CLASS-65-2	c 27	N87-21111 *	US-PATENT-CLASS-73-136R	c 15	N72-26371 *
US-PATENT-CLASS-62-45	c 33	N71-28892 *	US-PATENT-CLASS-65-30R	c 27	N78-32260 *	US-PATENT-CLASS-73-136	c 14	N70-34818 *
US-PATENT-CLASS-62-45	c 15	N73-12486 *	US-PATENT-CLASS-65-32	c 71	N78-10837 *	US-PATENT-CLASS-73-140	c 11	N72-25288 *
US-PATENT-CLASS-62-45	c 35	N74-15093 *	US-PATENT-CLASS-65-3	c 37	N75-26371 *	US-PATENT-CLASS-73-141AB	c 14	N72-33377 *
US-PATENT-CLASS-62-467R	c 34	N84-22903 *	US-PATENT-CLASS-65-4B	c 71	N78-10837 *	US-PATENT-CLASS-73-141A	c 14	N72-21405 *
US-PATENT-CLASS-62-467	c 33	N70-37979 *	US-PATENT-CLASS-65-43	c 37	N75-15992 *	US-PATENT-CLASS-73-141A	c 14	N72-22437 *
US-PATENT-CLASS-62-467	c 33	N71-17897 *	US-PATENT-CLASS-65-43	c 24	N79-25145 *	US-PATENT-CLASS-73-141A	c 35	N74-26945 *
US-PATENT-CLASS-62-467	c 05	N72-11084 *	US-PATENT-CLASS-65-59A	c 35	N77-24455 *	US-PATENT-CLASS-73-141A	c 35	N74-27865 *
US-PATENT-CLASS-62-467	c 33	N72-25911 *	US-PATENT-CLASS-65-60D	c 27	N78-32260 *	US-PATENT-CLASS-73-141A	c 35	N75-33369 *
US-PATENT-CLASS-62-467	c 33	N73-25952 *	US-PATENT-CLASS-65-61	c 74	N80-24149 *	US-PATENT-CLASS-73-141A	c 52	N81-20703 *
US-PATENT-CLASS-62-467	c 20	N75-24837 *	US-PATENT-CLASS-65-7	c 18	N71-23088 *	US-PATENT-CLASS-73-141	c 14	N70-41957 *
US-PATENT-CLASS-62-475	c 23	N72-25619 *	US-PATENT-CLASS-65-87	c 71	N78-10837 *	US-PATENT-CLASS-73-141	c 15	N71-20441 *
US-PATENT-CLASS-62-476	c 44	N82-26776 *	US-PATENT-CLASS-65-87	c 35	N77-24455 *	US-PATENT-CLASS-73-141	c 14	N71-23790 *
US-PATENT-CLASS-62-47	c 28	N81-14103 *	US-PATENT-CLASS-65-87	c 35	N77-24455 *	US-PATENT-CLASS-73-141	c 26	N71-25490 *
US-PATENT-CLASS-62-48	c 28	N78-24365 *	US-PATENT-CLASS-70-58	c 33	N81-25299 *	US-PATENT-CLASS-73-142	c 15	N70-40180 *
US-PATENT-CLASS-62-48	c 31	N83-31897 *	US-PATENT-CLASS-71-98	c 51	N83-17045 *	US-PATENT-CLASS-73-142	c 14	N71-20439 *
US-PATENT-CLASS-62-48	c 31	N87-21159 *	US-PATENT-CLASS-72-253	c 15	N71-22797 *	US-PATENT-CLASS-73-143	c 35	N75-19615 *
US-PATENT-CLASS-62-49	c 31	N76-14284 *	US-PATENT-CLASS-72-258	c 15	N73-13464 *	US-PATENT-CLASS-73-143	c 14	N75-24794 *
US-PATENT-CLASS-62-4	c 44	N77-32581 *	US-PATENT-CLASS-72-307	c 15	N72-12408 *	US-PATENT-CLASS-73-144	c 15	N71-22878 *
US-PATENT-CLASS-62-4	c 44	N78-17460 *	US-PATENT-CLASS-72-324	c 71	N86-21276 *	US-PATENT-CLASS-73-147	c 11	N70-33287 *
US-PATENT-CLASS-62-50	c 15	N70-34247 *	US-PATENT-CLASS-72-341	c 71	N86-21276 *	US-PATENT-CLASS-73-147	c 14	N70-33386 *
US-PATENT-CLASS-62-50	c 35	N78-12390 *	US-PATENT-CLASS-72-34	c 15	N71-21536 *	US-PATENT-CLASS-73-147	c 14	N70-34813 *
US-PATENT-CLASS-62-514 R	c 35	N83-32026 *	US-PATENT-CLASS-72-354	c 15	N71-23911 *	US-PATENT-CLASS-73-147	c 11	N70-36913 *
US-PATENT-CLASS-62-514 R	c 31	N87-21159 *	US-PATENT-CLASS-72-363	c 37	N76-14461 *	US-PATENT-CLASS-73-147	c 14	N70-40400 *
US-PATENT-CLASS-62-514 R	c 37	N87-23982 *	US-PATENT-CLASS-72-364	c 15	N71-18579 *	US-PATENT-CLASS-73-147	c 14	N70-41366 *
US-PATENT-CLASS-62-514JT	c 31	N77-10229 *	US-PATENT-CLASS-72-369	c 15	N71-24679 *	US-PATENT-CLASS-73-147	c 11	N71-15926 *
US-PATENT-CLASS-62-514R	c 35	N78-12390 *	US-PATENT-CLASS-72-436	c 37	N79-28550 *	US-PATENT-CLASS-73-147	c 09	N71-16086 *
US-PATENT-CLASS-62-514R	c 31	N78-17237 *	US-PATENT-CLASS-72-447	c 15	N73-13463 *	US-PATENT-CLASS-73-147	c 12	N71-20436 *
US-PATENT-CLASS-62-514R	c 31	N78-25256 *	US-PATENT-CLASS-72-451	c 37	N79-28550 *	US-PATENT-CLASS-73-147	c 09	N71-20816 *
US-PATENT-CLASS-62-514R	c 51	N79-10694 *	US-PATENT-CLASS-72-453	c 37	N76-18454 *	US-PATENT-CLASS-73-147	c 11	N71-21481 *
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US-PATENT-CLASS-73-515	c 14	N72-25410 *	US-PATENT-CLASS-73-75	c 35	N85-34373 *	US-PATENT-CLASS-73-9	c 14	N71-22995 *
US-PATENT-CLASS-73-517B	c 35	N74-15094 *	US-PATENT-CLASS-73-761	c 33	N83-16626 *	US-PATENT-CLASS-73-9	c 35	N76-31489 *
US-PATENT-CLASS-73-517R	c 17	N76-29347 *	US-PATENT-CLASS-73-76	c 06	N72-17095 *	US-PATENT-CLASS-73-9	c 15	N84-16231 *
US-PATENT-CLASS-73-517	c 11	N70-38196 *	US-PATENT-CLASS-73-770	c 39	N79-22537 *	US-PATENT-CLASS-74-100R	c 37	N78-31426 *
US-PATENT-CLASS-73-517	c 14	N70-41682 *	US-PATENT-CLASS-73-781	c 52	N80-27072 *	US-PATENT-CLASS-74-100	c 15	N71-24045 *
US-PATENT-CLASS-73-517	c 14	N71-15969 *	US-PATENT-CLASS-73-79	c 14	N71-26161 *	US-PATENT-CLASS-74-105	c 09	N72-22195 *
US-PATENT-CLASS-73-521	c 14	N72-25410 *	US-PATENT-CLASS-73-7	c 25	N86-19413 *	US-PATENT-CLASS-74-110	c 44	N83-14693 *
US-PATENT-CLASS-73-521	c 35	N86-32695 *	US-PATENT-CLASS-73-809	c 39	N87-25601 *	US-PATENT-CLASS-74-126	c 15	N71-21529 *
US-PATENT-CLASS-73-557	c 35	N75-19614 *	US-PATENT-CLASS-73-810	c 39	N79-22537 *	US-PATENT-CLASS-74-18.1	c 37	N82-24493 *
US-PATENT-CLASS-73-557	c 07	N76-27232 *	US-PATENT-CLASS-73-810	c 39	N87-25601 *	US-PATENT-CLASS-74-18.2	c 11	N71-27036 *
US-PATENT-CLASS-73-56	c 35	N80-18357 *	US-PATENT-CLASS-73-818	c 35	N83-21312 *	US-PATENT-CLASS-74-18.2	c 37	N82-24493 *
US-PATENT-CLASS-73-579	c 39	N78-15512 *	US-PATENT-CLASS-73-818	c 39	N83-32081 *	US-PATENT-CLASS-74-217R	c 37	N74-23070 *
US-PATENT-CLASS-73-579	c 35	N79-10390 *	US-PATENT-CLASS-73-81	c 14	N73-32321 *	US-PATENT-CLASS-74-2	c 15	N71-24600 *
US-PATENT-CLASS-73-579	c 33	N83-16626 *	US-PATENT-CLASS-73-822	c 39	N83-32081 *	US-PATENT-CLASS-74-2	c 31	N73-14855 *
US-PATENT-CLASS-73-579	c 27	N85-20126 *	US-PATENT-CLASS-73-827	c 39	N86-20841 *	US-PATENT-CLASS-74-384	c 37	N76-15457 *
US-PATENT-CLASS-73-57	c 14	N71-17584 *	US-PATENT-CLASS-73-82	c 43	N79-25443 *	US-PATENT-CLASS-74-385	c 07	N78-17056 *
US-PATENT-CLASS-73-57	c 14	N73-14429 *	US-PATENT-CLASS-73-82	c 43	N80-14423 *	US-PATENT-CLASS-74-409	c 15	N71-21744 *
US-PATENT-CLASS-73-582	c 27	N85-20126 *	US-PATENT-CLASS-73-82	c 43	N80-23711 *	US-PATENT-CLASS-74-417	c 07	N78-17056 *
US-PATENT-CLASS-73-583	c 71	N87-21652 *	US-PATENT-CLASS-73-831	c 35	N85-34375 *	US-PATENT-CLASS-74-417	c 37	N81-14318 *
US-PATENT-CLASS-73-588	c 37	N84-33807 *	US-PATENT-CLASS-73-833	c 24	N84-27829 *	US-PATENT-CLASS-74-417	c 37	N81-17432 *
US-PATENT-CLASS-73-588	c 27	N85-20126 *	US-PATENT-CLASS-73-84	c 14	N71-22765 *	US-PATENT-CLASS-74-424.8 R	c 35	N87-21304 *
US-PATENT-CLASS-73-589	c 35	N79-10390 *	US-PATENT-CLASS-73-84	c 14	N73-19420 *	US-PATENT-CLASS-74-424.8B	c 37	N85-20338 *
US-PATENT-CLASS-73-589	c 35	N84-22933 *	US-PATENT-CLASS-73-84	c 35	N77-27367 *	US-PATENT-CLASS-74-424.8VA	c 37	N75-15050 *
US-PATENT-CLASS-73-589	c 71	N87-21652 *	US-PATENT-CLASS-73-856	c 39	N83-32081 *	US-PATENT-CLASS-74-424.8VA	c 37	N85-20338 *
US-PATENT-CLASS-73-594	c 35	N84-22933 *	US-PATENT-CLASS-73-856	c 24	N84-27829 *	US-PATENT-CLASS-74-424.8	c 15	N71-26635 *
US-PATENT-CLASS-73-597	c 33	N83-16626 *	US-PATENT-CLASS-73-856	c 35	N85-34375 *	US-PATENT-CLASS-74-425	c 37	N80-32716 *
US-PATENT-CLASS-73-597	c 52	N83-27578 *	US-PATENT-CLASS-73-856	c 09	N87-25334 *	US-PATENT-CLASS-74-436	c 37	N75-13266 *
US-PATENT-CLASS-73-597	c 32	N87-14559 *	US-PATENT-CLASS-73-85	c 14	N72-33377 *	US-PATENT-CLASS-74-441	c 35	N87-21304 *
US-PATENT-CLASS-73-597	c 71	N87-21652 *	US-PATENT-CLASS-73-860	c 39	N83-32081 *	US-PATENT-CLASS-74-458	c 35	N87-21304 *
US-PATENT-CLASS-73-599	c 71	N87-21653 *	US-PATENT-CLASS-73-861.05	c 33	N83-31954 *	US-PATENT-CLASS-74-468	c 15	N71-24984 *
US-PATENT-CLASS-73-603	c 38	N78-32447 *	US-PATENT-CLASS-73-861.07	c 34	N86-12547 *	US-PATENT-CLASS-74-468	c 35	N87-21304 *
US-PATENT-CLASS-73-60	c 14	N73-14429 *	US-PATENT-CLASS-73-861.58	c 35	N86-25752 *	US-PATENT-CLASS-74-469	c 15	N72-21463 *
US-PATENT-CLASS-73-61.1C	c 23	N77-17161 *	US-PATENT-CLASS-73-861.65	c 02	N80-28300 *	US-PATENT-CLASS-74-469	c 15	N72-28495 *
US-PATENT-CLASS-73-61R	c 35	N78-27384 *	US-PATENT-CLASS-73-861.66	c 02	N80-28300 *	US-PATENT-CLASS-74-471XY	c 54	N75-27760 *
US-PATENT-CLASS-73-615	c 32	N87-14559 *	US-PATENT-CLASS-73-861.71	c 47	N84-28292 *	US-PATENT-CLASS-74-471	c 05	N70-41581 *
US-PATENT-CLASS-73-61	c 14	N71-26199 *	US-PATENT-CLASS-73-861	c 34	N81-26402 *	US-PATENT-CLASS-74-471	c 03	N70-42073 *
US-PATENT-CLASS-73-620	c 35	N84-22928 *	US-PATENT-CLASS-73-862.01	c 35	N86-19581 *	US-PATENT-CLASS-74-471	c 15	N71-20740 *
US-PATENT-CLASS-73-626	c 52	N79-26771 *	US-PATENT-CLASS-73-862.04	c 35	N86-32696 *	US-PATENT-CLASS-74-479	c 08	N82-24205 *
US-PATENT-CLASS-73-629	c 33	N83-16626 *	US-PATENT-CLASS-73-862.08	c 54	N82-26987 *	US-PATENT-CLASS-74-480R	c 05	N75-12930 *
US-PATENT-CLASS-73-630	c 39	N78-15512 *	US-PATENT-CLASS-73-862.54	c 37	N83-36482 *	US-PATENT-CLASS-74-480R	c 08	N82-24205 *
US-PATENT-CLASS-73-632	c 38	N79-14398 *	US-PATENT-CLASS-73-862.54	c 35	N85-20294 *	US-PATENT-CLASS-74-5.12	c 31	N71-26537 *
US-PATENT-CLASS-73-633	c 52	N79-14751 *	US-PATENT-CLASS-73-862.54	c 35	N86-19581 *	US-PATENT-CLASS-74-5.22	c 21	N73-13644 *
US-PATENT-CLASS-73-633	c 35	N84-22928 *	US-PATENT-CLASS-73-862.61	c 35	N86-32696 *	US-PATENT-CLASS-74-5.34	c 04	N76-26175 *
US-PATENT-CLASS-73-644	c 34	N83-31993 *	US-PATENT-CLASS-73-862.65	c 35	N84-28015 *	US-PATENT-CLASS-74-5.34	c 06	N83-33882 *
US-PATENT-CLASS-73-641	c 38	N79-14398 *	US-PATENT-CLASS-73-863.11	c 35	N83-29650 *	US-PATENT-CLASS-74-5.47	c 21	N71-23289 *
US-PATENT-CLASS-73-644	c 38	N79-14398 *	US-PATENT-CLASS-73-863.11	c 37	N85-29286 *	US-PATENT-CLASS-74-5.5	c 35	N74-28097 *
US-PATENT-CLASS-73-644	c 52	N79-14751 *	US-PATENT-CLASS-73-863.21	c 35	N86-26595 *	US-PATENT-CLASS-74-5.5	c 37	N84-28082 *
US-PATENT-CLASS-73-646	c 71	N78-14867 *	US-PATENT-CLASS-73-863.31	c 45	N83-25217 *	US-PATENT-CLASS-74-5.6D	c 33	N85-29142 *
US-PATENT-CLASS-73-646	c 35	N84-12445 *	US-PATENT-CLASS-73-863.31	c 35	N86-26595 *	US-PATENT-CLASS-74-5.6	c 35	N74-15094 *
US-PATENT-CLASS-73-647	c 32	N79-24203 *	US-PATENT-CLASS-73-863.72	c 35	N86-26595 *	US-PATENT-CLASS-74-5.7	c 35	N74-18233 *
US-PATENT-CLASS-73-655	c 35	N80-14371 *	US-PATENT-CLASS-73-863.83	c 45	N83-25217 *	US-PATENT-CLASS-74-5.7	c 15	N76-14158 *
US-PATENT-CLASS-73-657	c 35	N85-30282 *	US-PATENT-CLASS-73-863.86	c 35	N85-29213 *	US-PATENT-CLASS-74-5F	c 15	N73-12488 *
US-PATENT-CLASS-73-658	c 35	N84-12445 *	US-PATENT-CLASS-73-864.34	c 35	N86-26595 *	US-PATENT-CLASS-74-501R	c 15	N72-22485 *
US-PATENT-CLASS-73-65	c 14	N71-22992 *	US-PATENT-CLASS-73-864.41	c 35	N84-28018 *	US-PATENT-CLASS-74-515E	c 54	N78-17676 *
US-PATENT-CLASS-73-661	c 35	N80-14371 *	US-PATENT-CLASS-73-864.52	c 35	N85-29213 *	US-PATENT-CLASS-74-519	c 03	N70-41954 *
US-PATENT-CLASS-73-67.1	c 35	N75-12271 *	US-PATENT-CLASS-73-864.63	c 45	N83-25217 *	US-PATENT-CLASS-74-519	c 05	N81-19087 *
US-PATENT-CLASS-73-67.2	c 11	N69-21540 *	US-PATENT-CLASS-73-864.81	c 37	N85-29286 *	US-PATENT-CLASS-74-572	c 07	N78-33101 *
US-PATENT-CLASS-73-67.2	c 15	N71-18132 *	US-PATENT-CLASS-73-86	c 14	N69-39975 *	US-PATENT-CLASS-74-572	c 37	N79-10422 *
US-PATENT-CLASS-73-67.2	c 14	N72-22440 *	US-PATENT-CLASS-73-86	c 33	N71-21586 *	US-PATENT-CLASS-74-572	c 44	N79-14527 *
US-PATENT-CLASS-73-67.2	c 35	N78-17358 *	US-PATENT-CLASS-73-86	c 33	N73-27796 *	US-PATENT-CLASS-74-572	c 24	N81-29163 *
US-PATENT-CLASS-73-67.3	c 32	N73-26910 *	US-PATENT-CLASS-73-86	c 34	N74-15652 *	US-PATENT-CLASS-74-573R	c 37	N84-28082 *
US-PATENT-CLASS-73-67.5R	c 38	N74-15395 *	US-PATENT-CLASS-73-88.5R	c 15	N72-17452 *	US-PATENT-CLASS-74-586	c 37	N79-14382 *
US-PATENT-CLASS-73-67.7	c 39	N77-28511 *	US-PATENT-CLASS-73-88.5R	c 32	N73-26910 *	US-PATENT-CLASS-74-58	c 35	N84-22928 *
US-PATENT-CLASS-73-67.85	c 35	N74-10415 *	US-PATENT-CLASS-73-88.5R	c 52	N74-27864 *	US-PATENT-CLASS-74-594.6	c 37	N74-18127 *
US-PATENT-CLASS-73-67.85	c 38	N74-15130 *	US-PATENT-CLASS-73-88.5R	c 35	N76-14430 *	US-PATENT-CLASS-74-594.7	c 37	N74-18127 *
US-PATENT-CLASS-73-67.9	c 52	N74-20726 *	US-PATENT-CLASS-73-88.5SD	c 33	N76-19338 *	US-PATENT-CLASS-74-63	c 15	N71-17692 *
US-PATENT-CLASS-73-683.31	c 35	N81-29407 *	US-PATENT-CLASS-73-88.5	c 14	N70-34705 *	US-PATENT-CLASS-74-661	c 37	N80-32716 *
US-PATENT-CLASS-73-684.52	c 35	N81-29407 *	US-PATENT-CLASS-73-88.5	c 14	N70-34799 *	US-PATENT-CLASS-74-665B	c 37	N76-15457 *
US-PATENT-CLASS-73-69	c 71	N74-31148 *	US-PATENT-CLASS-73-88.5	c 14	N71-17656 *	US-PATENT-CLASS-74-665C	c 37	N80-32716 *
US-PATENT-CLASS-73-70.2	c 14	N71-10616 *	US-PATENT-CLASS-73-88.5	c 14	N71-21091 *	US-PATENT-CLASS-74-674	c 37	N79-20377 *
US-PATENT-CLASS-73-705	c 36	N85-21639 *	US-PATENT-CLASS-73-88.5	c 14	N71-23087 *	US-PATENT-CLASS-74-675	c 37	N74-27901 *
US-PATENT-CLASS-73-708	c 34	N85-21568 *	US-PATENT-CLASS-73-88.5	c 14	N71-24233 *	US-PATENT-CLASS-74-705	c 37	N79-20377 *
US-PATENT-CLASS-73-71.2	c 14	N74-34794 *	US-PATENT-CLASS-73-88.5	c 09	N72-22200 *	US-PATENT-CLASS-74-710	c 37	N74-27901 *
US-PATENT-CLASS-73-71.3	c 35	N74-15146 *	US-PATENT-CLASS-73-88.5	c 33	N75-31329 *	US-PATENT-CLASS-74-753	c 37	N84-28084 *
US-PATENT-CLASS-73-71.4	c 32	N71-16428 *	US-PATENT-CLASS-73-88.5	c 38	N76-28563 *	US-PATENT-CLASS-74-758	c 37	N84-28084 *
US-PATENT-CLASS-73-71.4	c 32	N71-26681 *	US-PATENT-CLASS-73-88A	c 32	N73-20740 *	US-PATENT-CLASS-74-764	c 37	N79-20377 *
US-PATENT-CLASS-73-71.5R	c 71	N74-31148 *	US-PATENT-CLASS-73-88F	c 39	N78-15512 *	US-PATENT-CLASS-74-800	c 37	N78-17385 *
US-PATENT-CLASS-73-71.5U	c 38	N74-15395 *	US-PATENT-CLASS-73-88R	c 35	N74-13129 *	US-PATENT-CLASS-74-812	c 37	N84-28084 *
US-PATENT-CLASS-73-71.6	c 14	N71-27185 *	US-PATENT-CLASS-73-88R	c 35	N77-22449 *	US-PATENT-CLASS-74-81	c 37	N78-16369 *
US-PATENT-CLASS-73-71.6	c 14	N72-27412 *	US-PATENT-CLASS-73-88R	c 39	N77-28511 *	US-PATENT-CLASS-74-820	c 37	N75-13266 *
US-PATENT-CLASS-73-71.6	c 14	N73-13416 *	US-PATENT-CLASS-73-88	c 32	N71-17645 *	US-PATENT-CLASS-74-83	c 37	N78-16369 *
US-PATENT-CLASS-73-71.6	c 14	N73-19421 *	US-PATENT-CLASS-73-90	c 32	N70-42003 *	US-PATENT-CLASS-74-89.15	c 15	N71-26635 *
US-PATENT-CLASS-73-71.6	c 35	N77-18417 *	US-PATENT-CLASS-73-90	c 32	N71-25360 *	US-PATENT-CLASS-74-89.15	c 15	N72-21462 *
US-PATENT-CLASS-73-714	c 35	N79-14347 *	US-PATENT-CLASS-73-90	c 14	N73-20476 *	US-PATENT-CLASS-74-89.15	c 35	N87-21304 *

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US-PATENT-3,068,658	c 15	N70-34247 *	US-PATENT-3,170,324	c 14	N70-36824 *	US-PATENT-3,219,250	c 15	N70-40204 *
US-PATENT-3,069,123	c 14	N70-39898 *	US-PATENT-3,170,471	c 32	N70-36536 *	US-PATENT-3,219,365	c 15	N71-28937 *
US-PATENT-3,070,330	c 21	N70-34539 *	US-PATENT-3,170,486	c 15	N70-36492 *	US-PATENT-3,219,997	c 08	N73-28045 *
US-PATENT-3,070,349	c 28	N70-39895 *	US-PATENT-3,170,605	c 15	N70-38996 *	US-PATENT-3,220,004	c 30	N70-40309 *
US-PATENT-3,070,407	c 15	N70-39896 *	US-PATENT-3,170,657	c 02	N70-34858 *	US-PATENT-3,221,547	c 14	N70-40201 *
US-PATENT-3,072,574	c 18	N70-39897 *	US-PATENT-3,170,660	c 02	N70-36804 *	US-PATENT-3,221,549	c 14	N70-40157 *
US-PATENT-3,076,065	c 09	N70-39915 *	US-PATENT-3,170,773	c 17	N70-33288 *	US-PATENT-3,223,374	c 15	N70-40156 *
US-PATENT-3,077,599	c 07	N70-40202 *	US-PATENT-3,171,060	c 25	N70-33267 *	US-PATENT-3,224,001	c 07	N70-40063 *
US-PATENT-3,079,113	c 02	N70-38009 *	US-PATENT-3,171,081	c 14	N70-35666 *	US-PATENT-3,224,173	c 15	N70-40062 *
US-PATENT-3,080,711	c 28	N70-38711 *	US-PATENT-3,172,097	c 08	N70-35423 *	US-PATENT-3,224,263	c 15	N70-40180 *
US-PATENT-3,083,611	c 21	N70-35427 *	US-PATENT-3,173,246	c 28	N70-33265 *	US-PATENT-3,224,336	c 30	N70-40353 *
US-PATENT-3,084,421	c 17	N70-38490 *	US-PATENT-3,173,251	c 28	N70-33375 *	US-PATENT-3,224,337	c 09	N79-21084 *
US-PATENT-3,085,165	c 09	N70-34819 *	US-PATENT-3,173,801	c 32	N79-19186 *	US-PATENT-3,228,492	c 15	N70-40354 *
US-PATENT-3,087,692	c 02	N70-34178 *	US-PATENT-3,174,278	c 25	N70-36946 *	US-PATENT-3,228,558	c 14	N70-40233 *
US-PATENT-3,088,441	c 15	N70-35409 *	US-PATENT-3,174,279	c 28	N70-36806 *	US-PATENT-3,229,099	c 14	N70-40238 *
US-PATENT-3,090,212	c 33	N70-37979 *	US-PATENT-3,174,827	c 26	N70-36805 *	US-PATENT-3,229,102	c 14	N70-40239 *
US-PATENT-3,090,580	c 31	N70-37924 *	US-PATENT-3,175,789	c 31	N70-36654 *	US-PATENT-3,229,139	c 28	N70-39925 *
US-PATENT-3,093,000	c 15	N70-37925 *	US-PATENT-3,176,222	c 14	N70-36618 *	US-PATENT-3,229,155	c 25	N70-41628 *
US-PATENT-3,093,346	c 31	N70-37938 *	US-PATENT-3,176,499	c 14	N70-35368 *	US-PATENT-3,229,463	c 28	N70-39931 *
US-PATENT-3,098,630	c 02	N70-37939 *	US-PATENT-3,176,933	c 33	N70-36617 *	US-PATENT-3,229,568	c 14	N70-40003 *
US-PATENT-3,100,294	c 09	N70-38998 *	US-PATENT-3,177,933	c 33	N70-36847 *	US-PATENT-3,229,636	c 03	N70-39930 *
US-PATENT-3,100,990	c 14	N70-34813 *	US-PATENT-3,178,883	c 21	N70-36938 *	US-PATENT-3,229,682	c 09	N70-40234 *
US-PATENT-3,102,948	c 15	N70-34814 *	US-PATENT-3,180,264	c 33	N70-36846 *	US-PATENT-3,229,689	c 05	N70-39922 *
US-PATENT-3,104,079	c 31	N70-37986 *	US-PATENT-3,180,587	c 21	N70-36943 *	US-PATENT-3,229,884	c 15	N70-39924 *
US-PATENT-3,104,082	c 02	N70-38011 *	US-PATENT-3,181,821	c 31	N70-36845 *	US-PATENT-3,229,905	c 04	N78-17031 *
US-PATENT-3,105,515	c 15	N70-38603 *	US-PATENT-3,182,496	c 11	N70-36913 *	US-PATENT-3,229,930	c 30	N70-40016 *
US-PATENT-3,106,603	c 09	N70-38201 *	US-PATENT-3,183,506	c 07	N70-36911 *	US-PATENT-3,230,053	c 26	N70-40015 *
US-PATENT-3,108,171	c 33	N70-34812 *	US-PATENT-3,185,023	c 14	N70-34298 *	US-PATENT-3,233,862	c 37	N79-33469 *
US-PATENT-3,110,318	c 12	N70-38997 *	US-PATENT-3,187,583	c 11	N70-38675 *	US-PATENT-3,236,066	c 15	N71-28959 *
US-PATENT-3,112,672	c 11	N70-38202 *	US-PATENT-3,188,472	c 21	N70-34297 *	US-PATENT-3,237,253	c 15	N71-15966 *
US-PATENT-3,115,630	c 31	N70-37981 *	US-PATENT-3,188,844	c 15	N70-34249 *	US-PATENT-3,238,345	c 11	N71-15925 *
US-PATENT-3,118,100	c 03	N71-29129 *	US-PATENT-3,189,299	c 21	N70-34295 *	US-PATENT-3,238,413	c 25	N71-29184 *
US-PATENT-3,119,086	c 35	N79-33449 *	US-PATENT-3,189,535	c 15	N70-34967 *	US-PATENT-3,238,715	c 28	N71-14043 *
US-PATENT-3,119,232	c 28	N70-37980 *	US-PATENT-3,189,726	c 33	N70-34545 *	US-PATENT-3,238,730	c 03	N71-12260 *
US-PATENT-3,120,101	c 28	N70-34860 *	US-PATENT-3,189,784	c 33	N75-27250 *	US-PATENT-3,238,774	c 14	N71-14996 *
US-PATENT-3,120,361	c 31	N70-38010 *	US-PATENT-3,189,794	c 09	N70-34502 *	US-PATENT-3,238,777	c 14	N71-15598 *
US-PATENT-3,120,738	c 28	N70-38249 *	US-PATENT-3,189,864	c 09	N70-34596 *	US-PATENT-3,239,660	c 23	N71-30292 *
US-PATENT-3,121,309	c 28	N70-35381 *	US-PATENT-3,190,124	c 35	N79-33450 *	US-PATENT-3,242,716	c 14	N71-15992 *
US-PATENT-3,122,000	c 15	N70-38020 *	US-PATENT-3,191,316	c 31	N70-34966 *	US-PATENT-3,243,154	c 23	N71-15673 *
US-PATENT-3,122,098	c 28	N70-38181 *	US-PATENT-3,191,379	c 27	N70-35534 *	US-PATENT-3,243,791	c 07	N71-11298 *
US-PATENT-3,122,885	c 28	N70-38710 *	US-PATENT-3,191,907	c 15	N70-34859 *	US-PATENT-3,244,943	c 15	N73-28516 *
US-PATENT-3,123,248	c 11	N70-38182 *	US-PATENT-3,192,730	c 06	N70-34946 *	US-PATENT-3,249,012	c 03	N71-12258 *
US-PATENT-3,123,418	c 37	N79-33467 *	US-PATENT-3,193,883	c 27	N70-34783 *	US-PATENT-3,249,013	c 03	N71-12259 *
US-PATENT-3,123,692	c 33	N79-33393 *	US-PATENT-3,194,060	c 14	N70-34794 *	US-PATENT-3,251,053	c 08	N71-12501 *
US-PATENT-3,127,157	c 15	N70-38225 *	US-PATENT-3,194,525	c 11	N70-35383 *	US-PATENT-3,252,100	c 10	N71-28960 *
US-PATENT-3,128,389	c 09	N70-38604 *	US-PATENT-3,194,951	c 08	N70-34778 *	US-PATENT-3,254,395	c 28	N71-15658 *
US-PATENT-3,128,845	c 15	N70-38601 *	US-PATENT-3,196,261	c 08	N70-34787 *	US-PATENT-3,254,487	c 28	N71-15659 *
US-PATENT-3,130,940	c 33	N70-33344 *	US-PATENT-3,196,362	c 09	N70-35440 *	US-PATENT-3,257,780	c 15	N71-15968 *
US-PATENT-3,131,040	c 37	N79-21345 *	US-PATENT-3,196,557	c 11	N70-34815 *	US-PATENT-3,258,582	c 02	N71-13421 *
US-PATENT-3,132,342	c 07	N70-38200 *	US-PATENT-3,196,558	c 14	N70-35394 *	US-PATENT-3,258,687	c 14	N71-15962 *
US-PATENT-3,132,476	c 28	N70-34294 *	US-PATENT-3,196,598	c 28	N70-34788 *	US-PATENT-3,258,831	c 15	N71-15986 *
US-PATENT-3,132,479	c 15	N71-28951 *	US-PATENT-3,196,675	c 14	N70-34818 *	US-PATENT-3,258,912	c 27	N71-15634 *
US-PATENT-3,132,903	c 15	N70-38620 *	US-PATENT-3,196,690	c 11	N70-34786 *	US-PATENT-3,258,918	c 27	N71-15635 *
US-PATENT-3,134,389	c 37	N79-33468 *	US-PATENT-3,197,616	c 14	N71-28958 *	US-PATENT-3,260,055	c 23	N71-15467 *
US-PATENT-3,135,089	c 28	N70-38504 *	US-PATENT-3,198,955	c 08	N70-34743 *	US-PATENT-3,260,204	c 31	N71-15692 *
US-PATENT-3,135,090	c 28	N70-38505 *	US-PATENT-3,198,994	c 26	N73-28710 *	US-PATENT-3,260,326	c 11	N71-28779 *
US-PATENT-3,136,123	c 28	N70-38199 *	US-PATENT-3,199,340	c 14	N70-34799 *	US-PATENT-3,261,210	c 14	N71-15969 *
US-PATENT-3,138,837	c 17	N70-38198 *	US-PATENT-3,199,343	c 11	N70-34844 *	US-PATENT-3,262,025	c 15	N73-32361 *
US-PATENT-3,139,725	c 28	N70-38645 *	US-PATENT-3,199,931	c 15	N70-34664 *	US-PATENT-3,262,186	c 15	N71-16052 *
US-PATENT-3,140,728	c 15	N70-38908 *	US-PATENT-3,200,706	c 03	N70-34667 *	US-PATENT-3,262,262	c 28	N71-15661 *
US-PATENT-3,141,340	c 11	N70-38196 *	US-PATENT-3,201,560	c 33	N70-34540 *	US-PATENT-3,262,351	c 15	N71-15922 *
US-PATENT-3,141,769	c 28	N70-38197 *	US-PATENT-3,201,635	c 25	N70-34661 *	US-PATENT-3,262,365	c 31	N71-15675 *
US-PATENT-3,141,932	c 03	N70-38713 *	US-PATENT-3,201,980	c 14	N70-40203 *	US-PATENT-3,262,395	c 15	N71-30028 *
US-PATENT-3,143,321	c 15	N70-34850 *	US-PATENT-3,202,381	c 31	N70-34176 *	US-PATENT-3,262,518	c 05	N71-11199 *
US-PATENT-3,143,651	c 14	N70-40240 *	US-PATENT-3,202,398	c 28	N71-28928 *	US-PATENT-3,262,655	c 31	N71-15663 *
US-PATENT-3,144,219	c 31	N70-38676 *	US-PATENT-3,202,844	c 03	N70-34134 *	US-PATENT-3,262,694	c 44	N79-19447 *
US-PATENT-3,144,999	c 02	N70-34856 *	US-PATENT-3,202,915	c 14	N70-38602 *	US-PATENT-3,263,016	c 33	N71-15625 *
US-PATENT-3,145,874	c 11	N71-15960 *	US-PATENT-3,202,998	c 31	N70-34135 *	US-PATENT-3,263,171	c 09	N71-15350 *
US-PATENT-3,147,422	c 09	N70-38712 *	US-PATENT-3,204,447	c 14	N70-34156 *	US-PATENT-3,263,610	c 15	N71-13789 *
US-PATENT-3,149,897	c 09	N70-36494 *	US-PATENT-3,204,889	c 03	N70-34157 *	US-PATENT-3,264,135	c 15	N71-16075 *
US-PATENT-3,150,329	c 09	N70-38995 *	US-PATENT-3,205,361	c 14	N70-34158 *	US-PATENT-3,270,441	c 11	N71-16028 *
US-PATENT-3,150,387	c 03	N70-36778 *	US-PATENT-3,205,362	c 21	N70-35089 *	US-PATENT-3,270,499	c 28	N71-15660 *
US-PATENT-3,152,344	c 05	N70-36493 *	US-PATENT-3,205,381	c 03	N70-35408 *	US-PATENT-3,270,501	c 31	N71-15647 *
US-PATENT-3,155,992	c 05	N70-34857 *	US-PATENT-3,206,141	c 21	N70-35395 *	US-PATENT-3,270,503	c 33	N71-15623 *
US-PATENT-3,156,090	c 28	N70-37245 *	US-PATENT-3,206,897	c 18	N75-27040 *	US-PATENT-3,270,504	c 31	N71-15637 *
US-PATENT-3,157,529	c 18	N70-36400 *	US-PATENT-3,208,215	c 28	N70-34162 *	US-PATENT-3,270,505	c 21	N71-15582 *
US-PATENT-3,158,172	c 15	N70-34817 *	US-PATENT-3,208,272	c 14	N70-34161 *	US-PATENT-3,270,512	c 15	N71-15906 *
US-PATENT-3,158,336	c 31	N70-38410 *	US-PATENT-3,208,694	c 02	N70-34160 *	US-PATENT-3,270,555	c 14	N71-30265 *
US-PATENT-3,158,764	c 03	N70-36803 *	US-PATENT-3,208,707	c 31	N70-34159 *	US-PATENT-3,270,766	c 15	N71-15967 *
US-PATENT-3,159,967	c 28	N70-36802 *	US-PATENT-3,209,360	c 09	N70-35219 *	US-PATENT-3,270,802	c 33	N71-24876 *
US-PATENT-3,160,825	c 14	N70-35220 *	US-PATENT-3,209,361	c 09	N70-35425 *	US-PATENT-3,270,835	c 28	N70-41582 *
US-PATENT-3,160,950	c 15	N70-36409 *	US-PATENT-3,210,927	c 28	N70-34175 *	US-PATENT-3,270,908	c 31	N71-15664 *
US-PATENT-3,162,012	c 15	N70-36411 *	US-PATENT-3,211,169	c 15	N70-35087 *	US-PATENT-3,270,985	c 21	N71-15583 *
US-PATENT-3,163,935	c 14	N70-38907 *	US-PATENT-3,211,414	c 15	N70-35407 *	US-PATENT-3,270,986	c 05	N71-12336 *
US-PATENT-3,164,222	c 15	N70-34861 *	US-PATENT-3,212,096	c 09	N70-35382 *	US-PATENT-3,270,988	c 01	N71-13410 *
US-PATENT-3,164,369	c 15	N70-36412 *	US-PATENT-3,212,259	c 28	N71-29153 *	US-PATENT-3,270,989	c 02	N71-11041 *
US-PATENT-3,165,356	c 05	N70-35152 *	US-PATENT-3,212,325	c 14	N70-34705 *	US-PATENT-3,270,990	c 28	N71-15563 *
US-PATENT-3,166,834	c 15	N70-36901 *	US-PATENT-3,212,564	c 33	N71-29052 *	US-PATENT-3,271,140	c 17	N71-15644 *
US-PATENT-3,167,426	c 17	N70-36616 *	US-PATENT-3,215,313	c 31	N79-21225 *	US-PATENT-3,271,181	c 15	N71-16077 *
US-PATENT-3,168,827	c 14	N70-36807 *	US-PATENT-3,215,572	c 12	N70-40124 *	US-PATENT-3,271,532	c 09	N71-16089 *
US-PATENT-3,169,001	c 02	N70-36825 *	US-PATENT-3,215,842	c 16	N71-28963 *	US-PATENT-3,271,558	c 15	N71-15871 *
US-PATENT-3,169,613	c 15	N70-36947 *	US-PATENT-3,216,007	c 08	N70-40125 *	US-PATENT-3,271,594	c 10	N71-28739 *
US-PATENT-3,169,725	c 31	N70-34296 *	US-PATENT-3,217,624	c 14	N70-40273 *	US-PATENT-3,271,620	c 09	N71-12540 *
US-PATENT-3,170,286	c 15	N70-36535 *	US-PATENT-3,218,479	c 09	N70-40272 *	US-PATENT-3,271,637	c 26	N71-18064 *
US-PATENT-3,170,290	c 28	N70-36910 *	US-PATENT-3,218,547	c 09	N70-40123 *	US-PATENT-3,271,649	c 10	N71-18030 *
US-PATENT-3,170,295	c 27	N71-28929 *	US-PATENT-3,218,850	c 14	N70-40400 *	US-PATENT-3,271,894	c 23	N71-28049 *

US-PATENT-3,273,355	c 33	N71-17897 *	US-PATENT-3,304,724	c 31	N70-41948 *	US-PATENT-3,336,748	c 25	N71-21694 *
US-PATENT-3,273,381	c 32	N71-17645 *	US-PATENT-3,304,729	c 31	N70-41871 *	US-PATENT-3,336,754	c 28	N71-22983 *
US-PATENT-3,273,388	c 09	N71-16086 *	US-PATENT-3,304,768	c 32	N70-42003 *	US-PATENT-3,337,004	c 14	N71-23092 *
US-PATENT-3,273,392	c 23	N71-17802 *	US-PATENT-3,304,773	c 14	N70-41957 *	US-PATENT-3,337,279	c 05	N71-23080 *
US-PATENT-3,273,399	c 12	N71-24692 *	US-PATENT-3,304,799	c 03	N70-41954 *	US-PATENT-3,337,315	c 18	N71-23088 *
US-PATENT-3,274,304	c 26	N71-17818 *	US-PATENT-3,304,865	c 28	N70-41967 *	US-PATENT-3,337,337	c 18	N71-22894 *
US-PATENT-3,275,794	c 37	N75-27376 *	US-PATENT-3,305,415	c 27	N70-41897 *	US-PATENT-3,337,790	c 12	N71-20896 *
US-PATENT-3,276,251	c 11	N71-15926 *	US-PATENT-3,305,636	c 08	N70-41961 *	US-PATENT-3,337,812	c 09	N71-23097 *
US-PATENT-3,276,376	c 31	N71-17629 *	US-PATENT-3,305,801	c 10	N70-41964 *	US-PATENT-3,339,404	c 14	N71-22765 *
US-PATENT-3,276,602	c 32	N71-17609 *	US-PATENT-3,305,810	c 09	N70-41929 *	US-PATENT-3,339,863	c 14	N71-23040 *
US-PATENT-3,276,679	c 15	N71-16079 *	US-PATENT-3,305,861	c 21	N70-41930 *	US-PATENT-3,340,099	c 03	N71-23006 *
US-PATENT-3,276,722	c 02	N71-16087 *	US-PATENT-3,305,870	c 07	N71-15907 *	US-PATENT-3,340,395	c 14	N71-23041 *
US-PATENT-3,276,726	c 31	N71-16081 *	US-PATENT-3,306,134	c 37	N78-17385 *	US-PATENT-3,340,397	c 11	N71-23042 *
US-PATENT-3,276,865	c 17	N71-16025 *	US-PATENT-3,308,848	c 12	N71-16031 *	US-PATENT-3,340,430	c 09	N71-22796 *
US-PATENT-3,276,866	c 17	N71-16026 *	US-PATENT-3,309,012	c 33	N71-17610 *	US-PATENT-3,340,532	c 10	N71-21473 *
US-PATENT-3,276,946	c 23	N71-15978 *	US-PATENT-3,309,961	c 15	N71-16078 *	US-PATENT-3,340,599	c 09	N71-23027 *
US-PATENT-3,277,314	c 10	N71-16042 *	US-PATENT-3,310,054	c 08	N71-15908 *	US-PATENT-3,340,713	c 15	N71-22723 *
US-PATENT-3,277,366	c 10	N71-16057 *	US-PATENT-3,310,138	c 12	N71-16894 *	US-PATENT-3,340,732	c 02	N71-23007 *
US-PATENT-3,277,373	c 07	N71-16088 *	US-PATENT-3,310,256	c 31	N71-17679 *	US-PATENT-3,341,151	c 31	N71-23009 *
US-PATENT-3,277,375	c 07	N71-11284 *	US-PATENT-3,310,258	c 31	N71-17691 *	US-PATENT-3,341,169	c 15	N71-23024 *
US-PATENT-3,277,458	c 10	N71-16058 *	US-PATENT-3,310,261	c 02	N71-11038 *	US-PATENT-3,341,708	c 16	N71-22895 *
US-PATENT-3,277,486	c 31	N71-10747 *	US-PATENT-3,310,262	c 02	N71-12243 *	US-PATENT-3,341,778	c 07	N71-23098 *
US-PATENT-3,279,193	c 33	N71-28852 *	US-PATENT-3,310,443	c 24	N71-10560 *	US-PATENT-3,341,977	c 15	N71-22705 *
US-PATENT-3,281,558	c 33	N75-27249 *	US-PATENT-3,310,699	c 14	N73-32324 *	US-PATENT-3,342,055	c 15	N71-22797 *
US-PATENT-3,281,963	c 11	N71-10746 *	US-PATENT-3,310,765	c 33	N79-21264 *	US-PATENT-3,342,066	c 11	N71-23030 *
US-PATENT-3,281,964	c 11	N71-10776 *	US-PATENT-3,310,978	c 14	N71-10616 *	US-PATENT-3,342,653	c 15	N71-22713 *
US-PATENT-3,281,965	c 11	N71-10748 *	US-PATENT-3,310,980	c 11	N71-10604 *	US-PATENT-3,343,180	c 05	N71-23159 *
US-PATENT-3,282,035	c 11	N71-10777 *	US-PATENT-3,311,315	c 07	N71-10609 *	US-PATENT-3,343,189	c 05	N71-22748 *
US-PATENT-3,282,091	c 14	N71-10781 *	US-PATENT-3,311,502	c 03	N71-10608 *	US-PATENT-3,343,340	c 09	N71-21449 *
US-PATENT-3,282,532	c 31	N71-17729 *	US-PATENT-3,311,510	c 26	N71-10607 *	US-PATENT-3,344,425	c 10	N71-21483 *
US-PATENT-3,282,541	c 31	N71-24750 *	US-PATENT-3,311,571	c 27	N79-21190 *	US-PATENT-3,345,820	c 28	N71-21822 *
US-PATENT-3,282,739	c 03	N71-11053 *	US-PATENT-3,311,748	c 21	N71-10678 *	US-PATENT-3,345,822	c 27	N71-21819 *
US-PATENT-3,282,740	c 03	N71-11051 *	US-PATENT-3,311,772	c 09	N71-10618 *	US-PATENT-3,345,840	c 15	N71-21536 *
US-PATENT-3,283,088	c 10	N71-15909 *	US-PATENT-3,311,832	c 07	N71-10775 *	US-PATENT-3,345,866	c 11	N71-21481 *
US-PATENT-3,283,175	c 10	N71-15910 *	US-PATENT-3,312,101	c 14	N71-10774 *	US-PATENT-3,346,419	c 03	N71-20895 *
US-PATENT-3,283,241	c 14	N71-16014 *	US-PATENT-3,313,204	c 28	N73-24783 *	US-PATENT-3,346,442	c 18	N71-21651 *
US-PATENT-3,286,274	c 05	N71-12335 *	US-PATENT-3,316,716	c 28	N71-10780 *	US-PATENT-3,346,515	c 06	N71-20905 *
US-PATENT-3,286,531	c 30	N71-17788 *	US-PATENT-3,316,752	c 14	N71-10779 *	US-PATENT-3,346,724	c 15	N71-21179 *
US-PATENT-3,286,629	c 31	N71-17730 *	US-PATENT-3,316,991	c 14	N71-10773 *	US-PATENT-3,346,806	c 14	N71-21090 *
US-PATENT-3,286,630	c 31	N71-10582 *	US-PATENT-3,317,180	c 15	N71-10778 *	US-PATENT-3,346,929	c 15	N71-21076 *
US-PATENT-3,286,882	c 27	N71-29155 *	US-PATENT-3,317,341	c 18	N71-10772 *	US-PATENT-3,347,046	c 33	N71-21507 *
US-PATENT-3,286,953	c 21	N70-41856 *	US-PATENT-3,317,352	c 03	N71-10728 *	US-PATENT-3,347,309	c 33	N71-29046 *
US-PATENT-3,286,957	c 02	N70-41863 *	US-PATENT-3,317,641	c 15	N71-10672 *	US-PATENT-3,347,465	c 18	N71-21068 *
US-PATENT-3,287,031	c 15	N70-41808 *	US-PATENT-3,317,731	c 21	N71-10771 *	US-PATENT-3,347,466	c 28	N71-21493 *
US-PATENT-3,287,174	c 03	N70-41864 *	US-PATENT-3,317,751	c 09	N71-10673 *	US-PATENT-3,347,531	c 15	N71-21177 *
US-PATENT-3,287,496	c 14	N70-41807 *	US-PATENT-3,317,797	c 10	N71-28783 *	US-PATENT-3,347,665	c 17	N71-20743 *
US-PATENT-3,287,582	c 28	N70-41576 *	US-PATENT-3,317,832	c 09	N71-10659 *	US-PATENT-3,348,048	c 14	N71-21088 *
US-PATENT-3,287,640	c 09	N70-41555 *	US-PATENT-3,318,093	c 15	N71-10658 *	US-PATENT-3,348,053	c 10	N71-20782 *
US-PATENT-3,287,660	c 16	N70-41578 *	US-PATENT-3,318,096	c 28	N71-28849 *	US-PATENT-3,348,152	c 10	N71-20841 *
US-PATENT-3,287,725	c 07	N70-41680 *	US-PATENT-3,318,343	c 15	N71-10809 *	US-PATENT-3,348,218	c 10	N71-29135 *
US-PATENT-3,289,205	c 07	N70-41678 *	US-PATENT-3,318,622	c 15	N71-10799 *	US-PATENT-3,349,814	c 33	N71-20834 *
US-PATENT-3,295,360	c 14	N70-41681 *	US-PATENT-3,319,175	c 09	N71-10798 *	US-PATENT-3,350,033	c 14	N71-21082 *
US-PATENT-3,295,366	c 11	N70-41677 *	US-PATENT-3,319,979	c 15	N71-10782 *	US-PATENT-3,350,034	c 31	N71-21064 *
US-PATENT-3,295,377	c 14	N70-41682 *	US-PATENT-3,320,669	c 15	N70-42017 *	US-PATENT-3,350,643	c 07	N71-20791 *
US-PATENT-3,295,386	c 05	N70-41581 *	US-PATENT-3,321,034	c 15	N70-42034 *	US-PATENT-3,350,671	c 09	N71-20842 *
US-PATENT-3,295,512	c 03	N70-41580 *	US-PATENT-3,321,154	c 31	N70-42075 *	US-PATENT-3,350,926	c 14	N71-21091 *
US-PATENT-3,295,545	c 15	N70-41646 *	US-PATENT-3,321,157	c 02	N70-42016 *	US-PATENT-3,352,157	c 14	N71-21072 *
US-PATENT-3,295,556	c 32	N70-41579 *	US-PATENT-3,321,159	c 31	N70-42015 *	US-PATENT-3,352,192	c 15	N71-21489 *
US-PATENT-3,295,594	c 54	N82-29002 *	US-PATENT-3,321,570	c 15	N70-41960 *	US-PATENT-3,352,774	c 37	N80-14395 *
US-PATENT-3,295,684	c 28	N70-41447 *	US-PATENT-3,321,628	c 10	N70-41991 *	US-PATENT-3,353,359	c 28	N71-20942 *
US-PATENT-3,295,699	c 32	N70-41367 *	US-PATENT-3,321,645	c 10	N70-42032 *	US-PATENT-3,354,098	c 06	N71-20717 *
US-PATENT-3,295,782	c 14	N70-41647 *	US-PATENT-3,321,922	c 28	N70-41992 *	US-PATENT-3,354,320	c 23	N71-21821 *
US-PATENT-3,295,790	c 31	N70-41588 *	US-PATENT-3,323,356	c 15	N70-41993 *	US-PATENT-3,354,462	c 14	N71-21006 *
US-PATENT-3,295,798	c 02	N70-41589 *	US-PATENT-3,323,362	c 14	N70-41994 *	US-PATENT-3,355,861	c 18	N71-20742 *
US-PATENT-3,295,808	c 15	N70-41310 *	US-PATENT-3,323,370	c 05	N70-42000 *	US-PATENT-3,355,948	c 14	N71-21007 *
US-PATENT-3,296,060	c 18	N70-41583 *	US-PATENT-3,323,386	c 03	N70-42073 *	US-PATENT-3,356,320	c 05	N71-20718 *
US-PATENT-3,296,526	c 14	N70-41332 *	US-PATENT-3,323,408	c 14	N70-41955 *	US-PATENT-3,356,549	c 15	N71-21404 *
US-PATENT-3,296,531	c 07	N70-41331 *	US-PATENT-3,323,484	c 14	N70-42074 *	US-PATENT-3,356,885	c 25	N71-20747 *
US-PATENT-3,298,175	c 33	N71-29053 *	US-PATENT-3,323,967	c 15	N70-42033 *	US-PATENT-3,356,917	c 33	N79-21265 *
US-PATENT-3,298,182	c 28	N70-41311 *	US-PATENT-3,324,370	c 09	N71-10677 *	US-PATENT-3,357,024	c 12	N71-20815 *
US-PATENT-3,298,221	c 14	N70-41330 *	US-PATENT-3,324,388	c 14	N71-10797 *	US-PATENT-3,357,093	c 15	N71-21078 *
US-PATENT-3,298,285	c 32	N70-41370 *	US-PATENT-3,324,423	c 07	N71-10676 *	US-PATENT-3,357,237	c 33	N71-21586 *
US-PATENT-3,298,362	c 05	N70-41329 *	US-PATENT-3,324,659	c 28	N71-10574 *	US-PATENT-3,357,862	c 03	N71-20904 *
US-PATENT-3,298,582	c 14	N71-28935 *	US-PATENT-3,325,229	c 15	N71-10617 *	US-PATENT-3,358,264	c 09	N71-20851 *
US-PATENT-3,299,364	c 16	N71-15550 *	US-PATENT-3,325,723	c 10	N71-10578 *	US-PATENT-3,359,046	c 15	N71-20739 *
US-PATENT-3,299,431	c 07	N71-28979 *	US-PATENT-3,325,749	c 09	N71-28810 *	US-PATENT-3,359,132	c 09	N71-20705 *
US-PATENT-3,299,913	c 15	N71-15918 *	US-PATENT-3,326,043	c 14	N71-10500 *	US-PATENT-3,359,409	c 07	N71-21476 *
US-PATENT-3,300,162	c 31	N70-41373 *	US-PATENT-3,326,407	c 15	N71-10577 *	US-PATENT-3,359,435	c 15	N71-21311 *
US-PATENT-3,300,731	c 07	N70-41372 *	US-PATENT-3,327,298	c 08	N71-21042 *	US-PATENT-3,359,555	c 09	N71-20864 *
US-PATENT-3,300,847	c 15	N70-41371 *	US-PATENT-3,327,991	c 15	N71-21234 *	US-PATENT-3,359,568	c 54	N78-17680 *
US-PATENT-3,300,949	c 05	N70-41297 *	US-PATENT-3,328,624	c 28	N71-28850 *	US-PATENT-3,359,819	c 15	N71-21744 *
US-PATENT-3,300,981	c 28	N70-41275 *	US-PATENT-3,329,375	c 21	N71-21708 *	US-PATENT-3,359,855	c 23	N71-21882 *
US-PATENT-3,301,046	c 14	N70-41366 *	US-PATENT-3,329,918	c 09	N71-21583 *	US-PATENT-3,360,798	c 09	N71-20658 *
US-PATENT-3,301,315	c 09	N70-41717 *	US-PATENT-3,330,052	c 11	N71-21474 *	US-PATENT-3,360,864	c 14	N71-24693 *
US-PATENT-3,301,507	c 31	N70-41631 *	US-PATENT-3,330,082	c 15	N71-21531 *	US-PATENT-3,360,972	c 15	N71-24833 *
US-PATENT-3,301,511	c 02	N70-41630 *	US-PATENT-3,330,510	c 31	N71-28851 *	US-PATENT-3,360,980	c 14	N71-20741 *
US-PATENT-3,301,578	c 15	N70-41629 *	US-PATENT-3,330,549	c 15	N71-21530 *	US-PATENT-3,360,988	c 09	N71-20816 *
US-PATENT-3,302,023	c 14	N70-41676 *	US-PATENT-3,331,071	c 07	N71-28900 *	US-PATENT-3,361,045	c 15	N71-21060 *
US-PATENT-3,302,040	c 09	N70-41675 *	US-PATENT-3,331,246	c 11	N71-21475 *	US-PATENT-3,361,067	c 26	N71-21824 *
US-PATENT-3,302,569	c 15	N70-41679 *	US-PATENT-3,331,255	c 15	N71-21529 *	US-PATENT-3,361,400	c 15	N71-20813 *
US-PATENT-3,302,633	c 05	N70-41819 *	US-PATENT-3,331,404	c 12	N71-21089 *	US-PATENT-3,361,666	c 15	N71-21403 *
US-PATENT-3,302,662	c 15	N70-41811 *	US-PATENT-3,331,951	c 21	N71-21688 *	US-PATENT-3,361,985	c 10	N71-20852 *
US-PATENT-3,302,960	c 15	N70-41829 *	US-PATENT-3,333,152	c 25	N71-21693 *	US-PATENT-3,364,311	c 07	N71-20814 *
US-PATENT-3,303,304	c 14	N70-41812 *	US-PATENT-3,333,788	c 31	N71-21881 *	US-PATENT-3,364,366	c 09	N71-28926 *
US-PATENT-3,304,028	c 31	N70-41855 *	US-PATENT-3,334,225	c 14	N73-32325 *	US-PATENT-3,364,578	c 14	N71-21079 *
US-PATENT-3,304,718	c 28	N70-41922 *	US-PATENT-3,336,725	c 15	N71-21528 *	US-PATENT-3,364,631	c 32	N71-21045 *

US-PATENT-3,364,777	c 15	N71-20740 *	US-PATENT-3,393,332	c 09	N71-23443 *	US-PATENT-3,421,591	c 14	N69-21923 *	#
US-PATENT-3,364,813	c 09	N71-22999 *	US-PATENT-3,393,347	c 10	N71-23543 *	US-PATENT-3,421,700	c 15	N69-23185 *	#
US-PATENT-3,365,657	c 10	N71-22961 *	US-PATENT-3,393,380	c 10	N71-23544 *	US-PATENT-3,421,768	c 15	N69-21362 *	#
US-PATENT-3,365,665	c 14	N71-23037 *	US-PATENT-3,393,384	c 09	N71-23573 *	US-PATENT-3,421,864	c 17	N71-23046 *	#
US-PATENT-3,365,897	c 33	N71-28892 *	US-PATENT-3,394,286	c 14	N73-30391 *	US-PATENT-3,421,948	c 03	N69-21337 *	#
US-PATENT-3,365,930	c 14	N71-22964 *	US-PATENT-3,394,359	c 08	N71-28925 *	US-PATENT-3,422,213	c 03	N69-21539 *	#
US-PATENT-3,365,941	c 14	N71-22965 *	US-PATENT-3,394,975	c 23	N71-30027 *	US-PATENT-3,422,278	c 09	N69-21468 *	#
US-PATENT-3,366,886	c 10	N71-22962 *	US-PATENT-3,395,053	c 18	N71-23047 *	US-PATENT-3,422,291	c 25	N69-21929 *	#
US-PATENT-3,366,894	c 10	N71-23084 *	US-PATENT-3,395,565	c 14	N73-30390 *	US-PATENT-3,422,324	c 14	N69-21541 *	#
US-PATENT-3,367,114	c 28	N71-23081 *	US-PATENT-3,396,057	c 26	N71-23043 *	US-PATENT-3,422,352	c 14	N71-19431 *	#
US-PATENT-3,367,121	c 15	N71-23025 *	US-PATENT-3,396,184	c 06	N71-28808 *	US-PATENT-3,422,354	c 09	N69-21926 *	#
US-PATENT-3,367,182	c 33	N71-23085 *	US-PATENT-3,396,303	c 09	N71-22987 *	US-PATENT-3,422,390	c 09	N69-21927 *	#
US-PATENT-3,367,224	c 15	N71-22798 *	US-PATENT-3,396,584	c 14	N71-30026 *	US-PATENT-3,422,403	c 08	N69-21928 *	#
US-PATENT-3,367,271	c 15	N71-24042 *	US-PATENT-3,396,719	c 52	N79-21750 *	US-PATENT-3,422,440	c 09	N69-21467 *	#
US-PATENT-3,367,308	c 11	N71-22875 *	US-PATENT-3,396,920	c 31	N71-29050 *	US-PATENT-3,423,179	c 15	N69-21922 *	#
US-PATENT-3,367,445	c 15	N71-23048 *	US-PATENT-3,397,094	c 26	N71-29156 *	US-PATENT-3,423,290	c 06	N71-17705 *	#
US-PATENT-3,368,486	c 15	N71-22874 *	US-PATENT-3,397,117	c 15	N71-23086 *	US-PATENT-3,423,579	c 09	N71-19480 *	#
US-PATENT-3,369,222	c 08	N71-22707 *	US-PATENT-3,397,318	c 14	N71-22991 *	US-PATENT-3,423,608	c 09	N69-21313 *	#
US-PATENT-3,369,223	c 08	N71-22710 *	US-PATENT-3,397,512	c 15	N71-23023 *	US-PATENT-3,423,627	c 33	N78-17293 *	#
US-PATENT-3,369,564	c 15	N71-23051 *	US-PATENT-3,397,537	c 20	N79-21125 *	US-PATENT-3,424,966	c 10	N71-20448 *	#
US-PATENT-3,370,039	c 06	N71-28807 *	US-PATENT-3,397,932	c 15	N71-22982 *	US-PATENT-3,425,131	c 15	N71-19489 *	#
US-PATENT-3,372,588	c 33	N71-29051 *	US-PATENT-3,399,299	c 10	N71-23662 *	US-PATENT-3,425,268	c 14	N69-39975 *	#
US-PATENT-3,373,016	c 26	N75-27127 *	US-PATENT-3,399,574	c 32	N71-24285 *	US-PATENT-3,425,272	c 14	N71-20439 *	#
US-PATENT-3,373,069	c 15	N71-23052 *	US-PATENT-3,402,265	c 09	N73-28084 *	US-PATENT-3,425,276	c 14	N69-24257 *	#
US-PATENT-3,373,404	c 08	N71-22749 *	US-PATENT-3,404,289	c 09	N71-23545 *	US-PATENT-3,425,486	c 05	N71-24147 *	#
US-PATENT-3,373,430	c 09	N71-22888 *	US-PATENT-3,404,348	c 32	N74-22096 *	US-PATENT-3,425,487	c 05	N71-19439 *	#
US-PATENT-3,373,431	c 07	N71-22750 *	US-PATENT-3,405,406	c 05	N71-23161 *	US-PATENT-3,425,885	c 15	N69-24322 *	#
US-PATENT-3,373,640	c 15	N71-22722 *	US-PATENT-3,405,887	c 31	N71-24315 *	US-PATENT-3,426,219	c 09	N69-24317 *	#
US-PATENT-3,373,914	c 15	N71-23050 *	US-PATENT-3,406,336	c 10	N71-24863 *	US-PATENT-3,426,230	c 15	N69-24319 *	#
US-PATENT-3,374,339	c 08	N71-22897 *	US-PATENT-3,406,742	c 33	N71-24276 *	US-PATENT-3,426,263	c 03	N71-19438 *	#
US-PATENT-3,374,366	c 09	N71-23015 *	US-PATENT-3,407,304	c 14	N71-23240 *	US-PATENT-3,426,272	c 14	N69-39785 *	#
US-PATENT-3,374,830	c 33	N71-22890 *	US-PATENT-3,408,816	c 28	N71-24736 *	US-PATENT-3,426,746	c 05	N71-26293 *	#
US-PATENT-3,375,451	c 10	N71-22986 *	US-PATENT-3,408,870	c 14	N71-23227 *	US-PATENT-3,426,791	c 15	N71-19569 *	#
US-PATENT-3,375,479	c 15	N71-23049 *	US-PATENT-3,409,247	c 33	N71-28903 *	US-PATENT-3,427,047	c 15	N69-27490 *	#
US-PATENT-3,375,712	c 35	N75-29382 *	US-PATENT-3,409,252	c 15	N71-23255 *	US-PATENT-3,427,089	c 23	N69-24332 *	#
US-PATENT-3,375,885	c 15	N73-32362 *	US-PATENT-3,409,554	c 26	N71-23292 *	US-PATENT-3,427,093	c 09	N71-19479 *	#
US-PATENT-3,376,730	c 14	N71-22995 *	US-PATENT-3,409,730	c 33	N71-24145 *	US-PATENT-3,427,097	c 11	N69-24321 *	#
US-PATENT-3,377,208	c 14	N71-23039 *	US-PATENT-3,411,356	c 14	N71-23226 *	US-PATENT-3,427,205	c 15	N69-24320 *	#
US-PATENT-3,377,845	c 14	N71-22992 *	US-PATENT-3,411,900	c 26	N75-27126 *	US-PATENT-3,427,435	c 17	N69-25147 *	#
US-PATENT-3,378,315	c 15	N71-22997 *	US-PATENT-3,412,559	c 28	N71-23293 *	US-PATENT-3,427,545	c 05	N71-19440 *	#
US-PATENT-3,378,657	c 33	N79-33392 *	US-PATENT-3,412,598	c 14	N71-23225 *	US-PATENT-3,427,525	c 03	N69-21330 *	#
US-PATENT-3,378,851	c 05	N71-23096 *	US-PATENT-3,412,729	c 04	N71-23185 *	US-PATENT-3,428,761	c 09	N69-24329 *	#
US-PATENT-3,378,892	c 15	N71-22994 *	US-PATENT-3,412,961	c 32	N71-23971 *	US-PATENT-3,428,812	c 14	N69-27485 *	#
US-PATENT-3,379,052	c 14	N73-32321 *	US-PATENT-3,413,115	c 17	N71-23365 *	US-PATENT-3,428,847	c 15	N69-24266 *	#
US-PATENT-3,379,064	c 14	N71-23093 *	US-PATENT-3,413,393	c 17	N71-29137 *	US-PATENT-3,428,910	c 09	N69-24330 *	#
US-PATENT-3,379,330	c 23	N71-22881 *	US-PATENT-3,413,510	c 09	N71-23190 *	US-PATENT-3,428,919	c 07	N69-24334 *	#
US-PATENT-3,379,885	c 09	N71-22985 *	US-PATENT-3,413,536	c 03	N71-24605 *	US-PATENT-3,428,923	c 07	N69-27462 *	#
US-PATENT-3,379,974	c 14	N71-22990 *	US-PATENT-3,414,012	c 09	N71-23191 *	US-PATENT-3,429,058	c 12	N69-39988 *	#
US-PATENT-3,380,042	c 07	N71-23001 *	US-PATENT-3,414,358	c 14	N71-23175 *	US-PATENT-3,429,177	c 06	N69-39733 *	#
US-PATENT-3,380,049	c 10	N71-23099 *	US-PATENT-3,415,032	c 15	N71-23256 *	US-PATENT-3,429,477	c 15	N69-27502 *	#
US-PATENT-3,381,339	c 06	N71-22975 *	US-PATENT-3,415,069	c 15	N71-24044 *	US-PATENT-3,429,756	c 76	N79-21910 *	#
US-PATENT-3,381,517	c 09	N71-22988 *	US-PATENT-3,415,116	c 14	N71-23790 *	US-PATENT-3,430,063	c 09	N69-27500 *	#
US-PATENT-3,381,527	c 15	N71-22878 *	US-PATENT-3,415,126	c 21	N71-23289 *	US-PATENT-3,430,115	c 09	N69-24318 *	#
US-PATENT-3,381,569	c 21	N71-22880 *	US-PATENT-3,415,156	c 15	N71-24043 *	US-PATENT-3,430,131	c 24	N71-20518 *	#
US-PATENT-3,381,778	c 15	N71-22877 *	US-PATENT-3,415,643	c 17	N71-23248 *	US-PATENT-3,430,182	c 14	N69-27431 *	#
US-PATENT-3,382,082	c 18	N71-22998 *	US-PATENT-3,416,106	c 09	N71-24808 *	US-PATENT-3,430,227	c 08	N71-19687 *	#
US-PATENT-3,382,105	c 03	N71-29044 *	US-PATENT-3,416,274	c 31	N71-24035 *	US-PATENT-3,430,237	c 07	N69-39974 *	#
US-PATENT-3,382,107	c 03	N71-22974 *	US-PATENT-3,416,939	c 18	N71-24183 *	US-PATENT-3,430,460	c 15	N69-27505 *	#
US-PATENT-3,382,714	c 14	N71-22989 *	US-PATENT-3,416,975	c 17	N71-23828 *	US-PATENT-3,430,902	c 14	N69-27486 *	#
US-PATENT-3,383,461	c 07	N71-23026 *	US-PATENT-3,416,988	c 15	N71-24164 *	US-PATENT-3,430,909	c 11	N69-27466 *	#
US-PATENT-3,383,524	c 10	N71-23029 *	US-PATENT-3,417,247	c 14	N71-23797 *	US-PATENT-3,430,937	c 15	N69-27483 *	#
US-PATENT-3,383,903	c 14	N71-23036 *	US-PATENT-3,417,266	c 09	N71-23270 *	US-PATENT-3,430,942	c 15	N69-27504 *	#
US-PATENT-3,383,922	c 14	N71-22752 *	US-PATENT-3,417,298	c 10	N71-23271 *	US-PATENT-3,431,149	c 14	N69-27459 *	#
US-PATENT-3,384,016	c 31	N71-23008 *	US-PATENT-3,417,316	c 14	N71-23174 *	US-PATENT-3,431,397	c 15	N69-27871 *	#
US-PATENT-3,384,075	c 05	N71-22896 *	US-PATENT-3,417,321	c 09	N71-23316 *	US-PATENT-3,431,460	c 09	N71-23189 *	#
US-PATENT-3,384,111	c 15	N71-22706 *	US-PATENT-3,417,332	c 07	N71-23405 *	US-PATENT-3,431,559	c 09	N69-24333 *	#
US-PATENT-3,384,324	c 33	N71-22792 *	US-PATENT-3,417,399	c 30	N71-23723 *	US-PATENT-3,432,730	c 09	N69-27422 *	#
US-PATENT-3,384,820	c 09	N71-23021 *	US-PATENT-3,417,400	c 07	N71-28809 *	US-PATENT-3,433,015	c 28	N71-20330 *	#
US-PATENT-3,384,895	c 07	N71-22984 *	US-PATENT-3,419,329	c 14	N71-23268 *	US-PATENT-3,433,079	c 14	N69-27503 *	#
US-PATENT-3,385,036	c 15	N71-22721 *	US-PATENT-3,419,363	c 18	N71-23710 *	US-PATENT-3,433,662	c 14	N71-20461 *	#
US-PATENT-3,386,337	c 15	N71-22799 *	US-PATENT-3,419,384	c 17	N73-28573 *	US-PATENT-3,433,818	c 06	N71-23230 *	#
US-PATENT-3,386,685	c 31	N71-22968 *	US-PATENT-3,419,433	c 03	N71-23187 *	US-PATENT-3,433,909	c 10	N71-23663 *	#
US-PATENT-3,386,686	c 31	N71-22969 *	US-PATENT-3,419,531	c 27	N79-21191 *	US-PATENT-3,433,953	c 14	N69-27484 *	#
US-PATENT-3,387,149	c 14	N71-22993 *	US-PATENT-3,419,537	c 06	N71-23500 *	US-PATENT-3,433,960	c 16	N69-27491 *	#
US-PATENT-3,387,218	c 37	N78-17386 *	US-PATENT-3,419,827	c 09	N71-23548 *	US-PATENT-3,433,961	c 14	N69-27432 *	#
US-PATENT-3,388,258	c 14	N71-22996 *	US-PATENT-3,419,964	c 14	N69-21363 *	US-PATENT-3,434,033	c 09	N69-39984 *	#
US-PATENT-3,388,387	c 10	N71-23033 *	US-PATENT-3,419,992	c 14	N71-23401 *	US-PATENT-3,434,037	c 10	N71-26414 *	#
US-PATENT-3,388,590	c 14	N71-23087 *	US-PATENT-3,420,069	c 15	N69-21465 *	US-PATENT-3,434,050	c 09	N71-20569 *	#
US-PATENT-3,389,017	c 15	N71-23022 *	US-PATENT-3,420,223	c 05	N69-21925 *	US-PATENT-3,434,064	c 09	N69-39986 *	#
US-PATENT-3,389,260	c 14	N71-23269 *	US-PATENT-3,420,225	c 05	N69-21473 *	US-PATENT-3,434,855	c 18	N71-24184 *	#
US-PATENT-3,389,346	c 10	N71-28859 *	US-PATENT-3,420,253	c 12	N69-21466 *	US-PATENT-3,434,885	c 03	N71-20492 *	#
US-PATENT-3,389,877	c 15	N71-28936 *	US-PATENT-3,420,338	c 15	N71-26243 *	US-PATENT-3,435,246	c 14	N69-24331 *	#
US-PATENT-3,390,017	c 03	N71-23336 *	US-PATENT-3,420,471	c 05	N69-21380 *	US-PATENT-3,437,394	c 14	N69-27461 *	#
US-PATENT-3,390,020	c 26	N71-23654 *	US-PATENT-3,420,704	c 15	N69-21460 *	US-PATENT-3,437,527	c 03	N69-24267 *	#
US-PATENT-3,390,023	c 26	N75-29236 *	US-PATENT-3,420,945	c 09	N69-21542 *	US-PATENT-3,437,560	c 04	N69-27487 *	#
US-PATENT-3,390,282	c 09	N71-23311 *	US-PATENT-3,420,978	c 15	N69-21471 *	US-PATENT-3,437,818	c 03	N71-23354 *	#
US-PATENT-3,390,378	c 08	N71-23295 *	US-PATENT-3,421,004	c 14	N71-19568 *	US-PATENT-3,437,832	c 09	N69-27463 *	#
US-PATENT-3,390,528	c 20	N79-21124 *	US-PATENT-3,421,053	c 15	N69-21472 *	US-PATENT-3,437,874	c 08	N71-20571 *	#
US-PATENT-3,391,080	c 15	N71-24046 *	US-PATENT-3,421,056	c 14	N69-23191 *	US-PATENT-3,437,903	c 03	N69-25146 *	#
US-PATENT-3,392,403	c 23	N71-23976 *	US-PATENT-3,421,105	c 09	N69-21543 *	US-PATENT-3,437,919	c 14	N69-27423 *	#
US-PATENT-3,392,586	c 14	N71-24232 *	US-PATENT-3,421,134	c 09	N69-21470 *	US-PATENT-3,437,935	c 09	N69-24324 *	#
US-PATENT-3,392,864	c 18	N71-23658 *	US-PATENT-3,421,331	c 15	N69-23190 *	US-PATENT-3,437,959	c 07	N69-24323 *	#
US-PATENT-3,392,865	c 15	N71-23816 *	US-PATENT-3,421,363	c 11	N69-21540 *	US-PATENT-3,438,044	c 07	N69-27460 *	#
US-PATENT-3,392,936	c 01	N71-23497 *	US-PATENT-3,421,506	c 05	N69-23192 *	US-PATENT-3,438,26			

US-PATENT-3,442,674	c 25	N82-29370 *	US-PATENT-3,466,198	c 03	N71-19545 *	US-PATENT-3,490,440	c 05	N71-12346 *
US-PATENT-3,443,128	c 03	N69-39890 *	US-PATENT-3,466,243	c 15	N71-23810 *	US-PATENT-3,490,718	c 33	N71-14035 *
US-PATENT-3,443,208	c 14	N71-20428 *	US-PATENT-3,466,418	c 15	N71-18613 *	US-PATENT-3,490,719	c 21	N71-14159 *
US-PATENT-3,443,384	c 28	N71-24321 *	US-PATENT-3,466,424	c 15	N71-20395 *	US-PATENT-3,490,721	c 02	N71-11039 *
US-PATENT-3,443,390	c 11	N71-24964 *	US-PATENT-3,466,459	c 09	N71-26000 *	US-PATENT-3,490,939	c 33	N71-14032 *
US-PATENT-3,443,412	c 15	N71-23811 *	US-PATENT-3,466,484	c 14	N71-18482 *	US-PATENT-3,490,965	c 09	N71-12513 *
US-PATENT-3,443,416	c 06	N69-39936 *	US-PATENT-3,466,560	c 09	N71-19466 *	US-PATENT-3,491,202	c 07	N71-12392 *
US-PATENT-3,443,472	c 15	N71-23254 *	US-PATENT-3,466,570	c 10	N71-25950 *	US-PATENT-3,491,255	c 09	N71-12514 *
US-PATENT-3,443,583	c 14	N71-18625 *	US-PATENT-3,467,837	c 05	N71-23317 *	US-PATENT-3,491,335	c 14	N71-15620 *
US-PATENT-3,443,584	c 32	N71-16106 *	US-PATENT-3,468,303	c 09	N71-26002 *	US-PATENT-3,491,857	c 14	N71-17626 *
US-PATENT-3,443,732	c 15	N71-15607 *	US-PATENT-3,468,548	c 15	N71-26294 *	US-PATENT-3,492,176	c 27	N71-14090 *
US-PATENT-3,443,773	c 31	N71-23912 *	US-PATENT-3,468,609	c 16	N71-24170 *	US-PATENT-3,492,672	c 05	N71-12344 *
US-PATENT-3,443,779	c 01	N69-39981 *	US-PATENT-3,468,727	c 14	N71-25892 *	US-PATENT-3,492,739	c 15	N71-15571 *
US-PATENT-3,444,051	c 05	N71-11207 *	US-PATENT-3,468,765	c 17	N71-25903 *	US-PATENT-3,492,858	c 35	N78-17358 *
US-PATENT-3,444,127	c 06	N71-11237 *	US-PATENT-3,469,068	c 15	N71-23815 *	US-PATENT-3,492,862	c 14	N71-15600 *
US-PATENT-3,444,375	c 14	N71-15599 *	US-PATENT-3,469,069	c 15	N71-23798 *	US-PATENT-3,492,947	c 28	N71-14058 *
US-PATENT-3,444,380	c 07	N69-39980 *	US-PATENT-3,469,087	c 16	N71-25914 *	US-PATENT-3,493,003	c 15	N71-15609 *
US-PATENT-3,446,075	c 14	N73-30394 *	US-PATENT-3,469,143	c 33	N75-29318 *	US-PATENT-3,493,004	c 12	N71-17579 *
US-PATENT-3,446,387	c 15	N69-39935 *	US-PATENT-3,469,289	c 15	N71-25975 *	US-PATENT-3,493,012	c 15	N71-15608 *
US-PATENT-3,446,558	c 16	N71-24074 *	US-PATENT-3,469,375	c 14	N71-18483 *	US-PATENT-3,493,027	c 31	N71-18611 *
US-PATENT-3,446,642	c 18	N69-39895 *	US-PATENT-3,469,436	c 15	N71-23817 *	US-PATENT-3,493,153	c 05	N71-12351 *
US-PATENT-3,446,676	c 03	N71-11050 *	US-PATENT-3,469,437	c 14	N71-24234 *	US-PATENT-3,493,155	c 26	N71-14354 *
US-PATENT-3,446,960	c 14	N69-39982 *	US-PATENT-3,469,734	c 11	N71-17600 *	US-PATENT-3,493,194	c 21	N71-14132 *
US-PATENT-3,446,992	c 09	N69-39987 *	US-PATENT-3,470,043	c 15	N71-24047 *	US-PATENT-3,493,197	c 02	N71-11043 *
US-PATENT-3,446,997	c 03	N69-39898 *	US-PATENT-3,470,304	c 14	N71-23267 *	US-PATENT-3,493,291	c 14	N71-15622 *
US-PATENT-3,446,998	c 09	N69-39929 *	US-PATENT-3,470,313	c 07	N71-26579 *	US-PATENT-3,493,294	c 14	N71-15605 *
US-PATENT-3,447,003	c 09	N71-20446 *	US-PATENT-3,470,318	c 07	N71-24612 *	US-PATENT-3,493,401	c 18	N71-14014 *
US-PATENT-3,447,015	c 06	N69-39889 *	US-PATENT-3,470,342	c 09	N71-19610 *	US-PATENT-3,493,415	c 15	N71-15610 *
US-PATENT-3,447,071	c 25	N69-39884 *	US-PATENT-3,470,443	c 03	N71-23239 *	US-PATENT-3,493,437	c 03	N71-11056 *
US-PATENT-3,447,154	c 21	N71-11766 *	US-PATENT-3,470,446	c 09	N71-23188 *	US-PATENT-3,493,522	c 06	N71-11243 *
US-PATENT-3,447,155	c 09	N71-18598 *	US-PATENT-3,470,466	c 14	N71-23699 *	US-PATENT-3,493,524	c 06	N71-11242 *
US-PATENT-3,447,233	c 15	N69-39786 *	US-PATENT-3,470,475	c 10	N71-19467 *	US-PATENT-3,493,665	c 14	N71-15621 *
US-PATENT-3,447,774	c 15	N71-19485 *	US-PATENT-3,470,489	c 09	N71-23598 *	US-PATENT-3,493,677	c 07	N71-11300 *
US-PATENT-3,447,850	c 09	N71-18600 *	US-PATENT-3,470,495	c 10	N71-23669 *	US-PATENT-3,493,711	c 15	N71-14932 *
US-PATENT-3,448,273	c 07	N69-39736 *	US-PATENT-3,470,496	c 09	N71-19470 *	US-PATENT-3,493,746	c 15	N71-15606 *
US-PATENT-3,448,290	c 10	N71-23315 *	US-PATENT-3,471,856	c 30	N71-16090 *	US-PATENT-3,493,797	c 15	N71-17652 *
US-PATENT-3,448,341	c 09	N71-12526 *	US-PATENT-3,471,858	c 07	N71-12391 *	US-PATENT-3,493,805	c 09	N71-12521 *
US-PATENT-3,448,346	c 15	N71-18701 *	US-PATENT-3,472,019	c 10	N71-26326 *	US-PATENT-3,493,901	c 09	N71-12517 *
US-PATENT-3,450,842	c 07	N69-39978 *	US-PATENT-3,472,059	c 14	N71-23755 *	US-PATENT-3,493,929	c 08	N71-12505 *
US-PATENT-3,450,878	c 14	N71-20430 *	US-PATENT-3,472,060	c 14	N71-26136 *	US-PATENT-3,493,942	c 08	N71-12504 *
US-PATENT-3,450,946	c 09	N69-39897 *	US-PATENT-3,472,069	c 15	N71-20441 *	US-PATENT-3,495,260	c 21	N71-13958 *
US-PATENT-3,452,103	c 06	N73-30101 *	US-PATENT-3,472,080	c 10	N71-26339 *	US-PATENT-3,495,262	c 07	N71-12396 *
US-PATENT-3,452,423	c 26	N71-16037 *	US-PATENT-3,472,086	c 15	N71-23809 *	US-PATENT-3,498,840	c 44	N82-24642 *
US-PATENT-3,452,872	c 14	N69-39896 *	US-PATENT-3,472,140	c 14	N71-26474 *	US-PATENT-3,498,841	c 44	N82-24641 *
US-PATENT-3,453,172	c 15	N69-39735 *	US-PATENT-3,472,202	c 17	N71-24911 *	US-PATENT-3,500,020	c 01	N71-13411 *
US-PATENT-3,453,462	c 03	N69-39983 *	US-PATENT-3,472,372	c 15	N71-20440 *	US-PATENT-3,500,525	c 15	N71-17688 *
US-PATENT-3,453,546	c 05	N71-12342 *	US-PATENT-3,472,470	c 02	N71-20570 *	US-PATENT-3,500,677	c 14	N71-17584 *
US-PATENT-3,453,878	c 09	N79-21083 *	US-PATENT-3,472,577	c 23	N71-24857 *	US-PATENT-3,500,686	c 12	N71-17569 *
US-PATENT-3,454,410	c 18	N69-39979 *	US-PATENT-3,472,625	c 06	N71-23527 *	US-PATENT-3,500,688	c 14	N71-17587 *
US-PATENT-3,454,766	c 35	N75-27329 *	US-PATENT-3,472,629	c 14	N71-20442 *	US-PATENT-3,500,747	c 09	N71-18599 *
US-PATENT-3,455,121	c 14	N71-20427 *	US-PATENT-3,472,698	c 03	N71-23449 *	US-PATENT-3,500,827	c 05	N71-11203 *
US-PATENT-3,455,171	c 23	N71-16098 *	US-PATENT-3,472,709	c 18	N71-26153 *	US-PATENT-3,501,112	c 15	N71-17693 *
US-PATENT-3,456,112	c 14	N69-39937 *	US-PATENT-3,472,742	c 17	N71-24830 *	US-PATENT-3,501,632	c 27	N71-16348 *
US-PATENT-3,456,193	c 08	N71-19763 *	US-PATENT-3,472,998	c 16	N71-20400 *	US-PATENT-3,501,641	c 20	N71-16340 *
US-PATENT-3,456,201	c 09	N69-39885 *	US-PATENT-3,473,050	c 09	N71-20447 *	US-PATENT-3,501,648	c 10	N71-24799 *
US-PATENT-3,458,104	c 15	N71-20393 *	US-PATENT-3,473,116	c 25	N71-20563 *	US-PATENT-3,501,649	c 10	N71-18723 *
US-PATENT-3,458,313	c 14	N71-17574 *	US-PATENT-3,473,165	c 05	N71-26333 *	US-PATENT-3,501,664	c 14	N71-17585 *
US-PATENT-3,458,651	c 09	N71-19449 *	US-PATENT-3,473,216	c 15	N71-20443 *	US-PATENT-3,501,683	c 15	N71-17694 *
US-PATENT-3,458,702	c 14	N71-18699 *	US-PATENT-3,473,379	c 12	N71-26387 *	US-PATENT-3,501,684	c 09	N71-26092 *
US-PATENT-3,458,726	c 10	N69-39888 *	US-PATENT-3,473,758	c 03	N71-20273 *	US-PATENT-3,501,701	c 08	N71-18692 *
US-PATENT-3,458,833	c 10	N71-19418 *	US-PATENT-3,474,192	c 07	N71-26102 *	US-PATENT-3,501,704	c 07	N71-11282 *
US-PATENT-3,458,851	c 09	N69-39734 *	US-PATENT-3,474,220	c 15	N71-19486 *	US-PATENT-3,501,712	c 09	N71-19516 *
US-PATENT-3,459,391	c 03	N71-11058 *	US-PATENT-3,474,328	c 14	N71-26266 *	US-PATENT-3,501,743	c 09	N71-18843 *
US-PATENT-3,460,378	c 14	N71-24233 *	US-PATENT-3,474,357	c 09	N71-20445 *	US-PATENT-3,501,750	c 08	N71-19288 *
US-PATENT-3,460,379	c 15	N71-24834 *	US-PATENT-3,474,413	c 10	N71-26103 *	US-PATENT-3,501,752	c 08	N71-18595 *
US-PATENT-3,460,381	c 14	N71-23725 *	US-PATENT-3,474,441	c 08	N71-19544 *	US-PATENT-3,501,764	c 10	N71-18722 *
US-PATENT-3,460,397	c 15	N71-24045 *	US-PATENT-3,475,384	c 06	N73-30103 *	US-PATENT-3,502,051	c 15	N71-17647 *
US-PATENT-3,460,759	c 28	N71-23968 *	US-PATENT-3,475,442	c 26	N75-27125 *	US-PATENT-3,502,074	c 05	N71-11190 *
US-PATENT-3,460,781	c 14	N71-23698 *	US-PATENT-3,475,675	c 33	N78-17295 *	US-PATENT-3,502,141	c 33	N71-16277 *
US-PATENT-3,460,995	c 03	N71-20407 *	US-PATENT-3,478,514	c 37	N77-22479 *	US-PATENT-3,503,251	c 32	N71-16428 *
US-PATENT-3,461,290	c 14	N71-26475 *	US-PATENT-3,480,789	c 10	N71-26626 *	US-PATENT-3,504,258	c 10	N71-18724 *
US-PATENT-3,461,393	c 10	N71-26415 *	US-PATENT-3,481,638	c 15	N71-26312 *	US-PATENT-3,504,983	c 23	N71-16341 *
US-PATENT-3,461,437	c 10	N71-26434 *	US-PATENT-3,481,802	c 31	N79-21226 *	US-PATENT-3,506,496	c 44	N82-24645 *
US-PATENT-3,461,700	c 15	N71-26346 *	US-PATENT-3,481,887	c 18	N71-26155 *	US-PATENT-3,507,034	c 15	N71-17650 *
US-PATENT-3,461,721	c 12	N71-20436 *	US-PATENT-3,482,179	c 10	N71-26331 *	US-PATENT-3,507,114	c 27	N71-16392 *
US-PATENT-3,461,855	c 05	N71-20268 *	US-PATENT-3,483,535	c 10	N71-26418 *	US-PATENT-3,507,146	c 05	N71-11202 *
US-PATENT-3,463,001	c 14	N71-20429 *	US-PATENT-3,484,712	c 10	N71-26374 *	US-PATENT-3,507,150	c 20	N71-16281 *
US-PATENT-3,463,563	c 15	N71-23812 *	US-PATENT-3,485,290	c 20	N79-21123 *	US-PATENT-3,507,425	c 15	N71-17628 *
US-PATENT-3,463,673	c 03	N71-20491 *	US-PATENT-3,486,123	c 16	N71-24831 *	US-PATENT-3,507,436	c 08	N71-19420 *
US-PATENT-3,463,679	c 17	N71-24142 *	US-PATENT-3,487,216	c 14	N71-24809 *	US-PATENT-3,507,704	c 03	N71-11052 *
US-PATENT-3,463,761	c 06	N73-30099 *	US-PATENT-3,487,281	c 15	N71-24695 *	US-PATENT-3,507,706	c 03	N71-18698 *
US-PATENT-3,463,762	c 06	N73-30100 *	US-PATENT-3,487,288	c 10	N71-25139 *	US-PATENT-3,508,036	c 08	N71-18693 *
US-PATENT-3,463,939	c 10	N71-19471 *	US-PATENT-3,487,680	c 15	N71-17696 *	US-PATENT-3,508,039	c 08	N71-19437 *
US-PATENT-3,464,012	c 14	N71-26244 *	US-PATENT-3,487,765	c 54	N78-17679 *	US-PATENT-3,508,053	c 09	N71-18830 *
US-PATENT-3,464,016	c 10	N71-19472 *	US-PATENT-3,488,103	c 14	N71-15604 *	US-PATENT-3,508,070	c 03	N71-11057 *
US-PATENT-3,464,018	c 09	N71-23525 *	US-PATENT-3,488,123	c 14	N71-17627 *	US-PATENT-3,508,152	c 07	N71-11266 *
US-PATENT-3,464,049	c 32	N71-15974 *	US-PATENT-3,488,414	c 15	N71-17803 *	US-PATENT-3,508,156	c 07	N71-11267 *
US-PATENT-3,464,051	c 15	N71-17685 *	US-PATENT-3,488,461	c 09	N71-12518 *	US-PATENT-3,508,347	c 05	N71-24606 *
US-PATENT-3,465,482	c 31	N71-16080 *	US-PATENT-3,488,504	c 21	N71-15642 *	US-PATENT-3,508,402	c 33	N71-16104 *
US-PATENT-3,465,567	c 15	N71-18579 *	US-PATENT-3,488,771	c 54	N78-17678 *	US-PATENT-3,508,541	c 05	N71-11193 *
US-PATENT-3,465,569	c 14	N71-17659 *	US-PATENT-3,490,074	c 54	N78-17677 *	US-PATENT-3,508,578	c 32	N71-16103 *
US-PATENT-3,465,584	c 14	N71-23726 *	US-PATENT-3,490,130	c 05	N71-12345 *	US-PATENT-3,508,723	c 31	N71-16222 *
US-PATENT-3,465,638	c 11	N71-18578 *	US-PATENT-3,490,205	c 14	N71-17588 *	US-PATENT-3,508,724	c 02	N71-11037 *
US-PATENT-3,465,986	c 31	N71-20396 *	US-PATENT-3,490,235	c 28	N71-14044 *	US-PATENT-3,508,739	c 15	N71-17648 *
US-PATENT-3,466,052	c 15	N71-19570 *	US-PATENT-3,490,238	c 15	N70-22192 *	US-PATENT-3,508,779	c 15	N71-24897 *
US-PATENT-3,466,085	c 05	N71-12343 *	US-PATENT-3,490,405	c 15	N71-15597 *	US-PATENT-3,508,940	c 18	N71-16124 *

US-PATENT-3,508,955	c 18	N71-16105 *	US-PATENT-3,534,376	c 07	N71-26101 *	US-PATENT-3,545,275	c 09	N71-24597 *
US-PATENT-3,508,999	c 15	N71-17687 *	US-PATENT-3,534,406	c 05	N71-11195 *	US-PATENT-3,545,725	c 15	N71-24599 *
US-PATENT-3,509,034	c 14	N71-17575 *	US-PATENT-3,534,407	c 05	N71-11194 *	US-PATENT-3,545,792	c 15	N71-24903 *
US-PATENT-3,509,386	c 03	N71-11055 *	US-PATENT-3,534,479	c 14	N71-17657 *	US-PATENT-3,546,386	c 07	N71-24864 *
US-PATENT-3,509,419	c 24	N71-16213 *	US-PATENT-3,534,480	c 14	N71-17658 *	US-PATENT-3,546,471	c 14	N71-24864 *
US-PATENT-3,509,469	c 23	N71-16099 *	US-PATENT-3,534,485	c 11	N71-18773 *	US-PATENT-3,546,552	c 15	N71-24895 *
US-PATENT-3,509,475	c 09	N71-24596 *	US-PATENT-3,534,555	c 12	N71-17631 *	US-PATENT-3,546,553	c 09	N71-24805 *
US-PATENT-3,509,491	c 09	N71-18721 *	US-PATENT-3,534,584	c 10	N71-13545 *	US-PATENT-3,546,684	c 07	N71-24624 *
US-PATENT-3,509,551	c 08	N71-18694 *	US-PATENT-3,534,585	c 14	N71-17701 *	US-PATENT-3,546,694	c 10	N71-24798 *
US-PATENT-3,509,551	c 08	N71-18694 *	US-PATENT-3,534,592	c 14	N71-17656 *	US-PATENT-3,546,705	c 09	N71-24842 *
US-PATENT-3,509,558	c 08	N71-19435 *	US-PATENT-3,534,596	c 14	N71-17586 *	US-PATENT-3,546,917	c 15	N71-24679 *
US-PATENT-3,509,570	c 09	N71-18720 *	US-PATENT-3,534,597	c 31	N71-15643 *	US-PATENT-3,546,920	c 06	N71-24607 *
US-PATENT-3,509,578	c 07	N71-19493 *	US-PATENT-3,534,650	c 15	N71-17653 *	US-PATENT-3,546,931	c 32	N71-25360 *
US-PATENT-3,511,680	c 31	N79-21227 *	US-PATENT-3,534,686	c 31	N71-15687 *	US-PATENT-3,547,105	c 09	N71-24618 *
US-PATENT-3,512,009	c 08	N71-18751 *	US-PATENT-3,534,727	c 05	N71-11189 *	US-PATENT-3,547,376	c 31	N71-25434 *
US-PATENT-3,514,785	c 54	N78-18761 *	US-PATENT-3,534,765	c 12	N71-17661 *	US-PATENT-3,547,540	c 16	N71-24828 *
US-PATENT-3,516,091	c 05	N71-24623 *	US-PATENT-3,534,826	c 31	N71-15689 *	US-PATENT-3,547,801	c 03	N71-24718 *
US-PATENT-3,516,179	c 11	N71-19494 *	US-PATENT-3,534,836	c 15	N71-17805 *	US-PATENT-3,548,107	c 07	N71-24622 *
US-PATENT-3,516,185	c 12	N71-18603 *	US-PATENT-3,534,909	c 15	N71-17654 *	US-PATENT-3,548,633	c 18	N71-24934 *
US-PATENT-3,516,284	c 12	N71-17573 *	US-PATENT-3,534,924	c 31	N71-15674 *	US-PATENT-3,548,636	c 15	N71-24910 *
US-PATENT-3,516,404	c 05	N71-17599 *	US-PATENT-3,534,925	c 31	N71-15676 *	US-PATENT-3,548,812	c 05	N71-24729 *
US-PATENT-3,516,711	c 05	N71-12341 *	US-PATENT-3,534,926	c 15	N71-19214 *	US-PATENT-3,548,930	c 33	N71-25353 *
US-PATENT-3,516,879	c 23	N71-18212 *	US-PATENT-3,534,930	c 02	N71-13422 *	US-PATENT-3,549,435	c 14	N72-28438 *
US-PATENT-3,516,964	c 06	N71-11240 *	US-PATENT-3,535,012	c 16	N71-15567 *	US-PATENT-3,549,564	c 06	N71-24739 *
US-PATENT-3,516,970	c 06	N71-11239 *	US-PATENT-3,535,013	c 16	N71-15551 *	US-PATENT-3,549,799	c 09	N71-25866 *
US-PATENT-3,516,971	c 06	N71-24740 *	US-PATENT-3,535,014	c 16	N71-15565 *	US-PATENT-3,549,882	c 15	N71-24896 *
US-PATENT-3,517,109	c 07	N71-19436 *	US-PATENT-3,535,024	c 14	N71-17662 *	US-PATENT-3,549,955	c 09	N71-24892 *
US-PATENT-3,517,162	c 33	N71-16278 *	US-PATENT-3,535,041	c 14	N71-17655 *	US-PATENT-3,550,023	c 09	N71-24806 *
US-PATENT-3,517,171	c 08	N71-24633 *	US-PATENT-3,535,110	c 17	N71-15468 *	US-PATENT-3,550,034	c 16	N71-24832 *
US-PATENT-3,517,221	c 10	N71-19547 *	US-PATENT-3,535,130	c 18	N71-15469 *	US-PATENT-3,550,129	c 21	N71-24948 *
US-PATENT-3,517,268	c 10	N71-19469 *	US-PATENT-3,535,165	c 33	N71-15568 *	US-PATENT-3,550,585	c 05	N71-24738 *
US-PATENT-3,517,302	c 25	N71-16073 *	US-PATENT-3,535,179	c 15	N71-17651 *	US-PATENT-3,551,266	c 33	N71-24858 *
US-PATENT-3,517,318	c 08	N71-19432 *	US-PATENT-3,535,185	c 18	N71-15688 *	US-PATENT-3,551,816	c 07	N71-24613 *
US-PATENT-3,517,328	c 16	N71-18614 *	US-PATENT-3,535,352	c 18	N71-12539 *	US-PATENT-3,551,831	c 33	N75-27251 *
US-PATENT-3,518,232	c 06	N71-11235 *	US-PATENT-3,535,446	c 09	N71-12539 *	US-PATENT-3,552,124	c 28	N71-26642 *
US-PATENT-3,519,483	c 44	N82-24644 *	US-PATENT-3,535,451	c 07	N71-11281 *	US-PATENT-3,552,125	c 28	N71-26173 *
US-PATENT-3,519,484	c 44	N82-24643 *	US-PATENT-3,535,497	c 08	N71-24890 *	US-PATENT-3,552,002	c 18	N71-26100 *
US-PATENT-3,520,190	c 10	N71-13537 *	US-PATENT-3,535,543	c 09	N71-13486 *	US-PATENT-3,553,586	c 07	N71-26292 *
US-PATENT-3,520,238	c 14	N71-18465 *	US-PATENT-3,535,547	c 09	N71-12520 *	US-PATENT-3,553,704	c 10	N71-26142 *
US-PATENT-3,520,317	c 12	N71-17578 *	US-PATENT-3,535,554	c 09	N71-12516 *	US-PATENT-3,553,904	c 15	N71-26134 *
US-PATENT-3,520,496	c 31	N71-16345 *	US-PATENT-3,535,560	c 08	N71-12494 *	US-PATENT-3,554,466	c 31	N71-26537 *
US-PATENT-3,520,503	c 31	N71-16085 *	US-PATENT-3,535,562	c 33	N71-27862 *	US-PATENT-3,554,647	c 23	N71-26206 *
US-PATENT-3,520,617	c 23	N71-16101 *	US-PATENT-3,535,570	c 15	N71-24696 *	US-PATENT-3,554,806	c 03	N71-26084 *
US-PATENT-3,520,660	c 23	N71-16355 *	US-PATENT-3,535,586	c 25	N71-15562 *	US-PATENT-3,555,192	c 07	N71-26181 *
US-PATENT-3,521,054	c 06	N71-13461 *	US-PATENT-3,535,602	c 09	N71-13522 *	US-PATENT-3,555,361	c 10	N71-26531 *
US-PATENT-3,521,143	c 08	N71-18752 *	US-PATENT-3,535,642	c 08	N71-12503 *	US-PATENT-3,555,455	c 23	N71-26722 *
US-PATENT-3,521,290	c 31	N71-16102 *	US-PATENT-3,535,644	c 09	N71-12519 *	US-PATENT-3,555,483	c 35	N77-21393 *
US-PATENT-3,523,228	c 10	N71-24861 *	US-PATENT-3,535,657	c 07	N71-12390 *	US-PATENT-3,555,867	c 15	N71-26148 *
US-PATENT-3,526,030	c 15	N71-17686 *	US-PATENT-3,535,658	c 08	N71-12500 *	US-PATENT-3,555,898	c 12	N71-26546 *
US-PATENT-3,526,134	c 33	N71-16356 *	US-PATENT-3,535,683	c 31	N71-15566 *	US-PATENT-3,556,048	c 09	N71-26701 *
US-PATENT-3,526,139	c 31	N71-16221 *	US-PATENT-3,535,696	c 08	N71-12506 *	US-PATENT-3,556,634	c 07	N71-26291 *
US-PATENT-3,526,140	c 27	N71-16223 *	US-PATENT-3,535,702	c 09	N71-12515 *	US-PATENT-3,557,027	c 06	N71-25929 *
US-PATENT-3,526,359	c 33	N71-16357 *	US-PATENT-3,536,103	c 15	N71-19213 *	US-PATENT-3,557,534	c 15	N71-26185 *
US-PATENT-3,526,365	c 28	N71-16224 *	US-PATENT-3,537,096	c 08	N71-12507 *	US-PATENT-3,559,031	c 10	N71-26085 *
US-PATENT-3,526,372	c 31	N71-16346 *	US-PATENT-3,537,103	c 08	N71-24650 *	US-PATENT-3,559,096	c 10	N71-25882 *
US-PATENT-3,526,382	c 15	N71-17649 *	US-PATENT-3,537,107	c 05	N71-24730 *	US-PATENT-3,559,460	c 14	N71-26672 *
US-PATENT-3,526,460	c 23	N71-16365 *	US-PATENT-3,537,305	c 26	N71-25490 *	US-PATENT-3,559,937	c 14	N71-26627 *
US-PATENT-3,526,473	c 18	N71-15545 *	US-PATENT-3,537,515	c 09	N71-24807 *	US-PATENT-3,560,081	c 19	N71-26674 *
US-PATENT-3,526,580	c 18	N71-16210 *	US-PATENT-3,537,668	c 05	N71-24728 *	US-PATENT-3,560,161	c 06	N71-26754 *
US-PATENT-3,526,611	c 06	N71-11236 *	US-PATENT-3,537,672	c 15	N71-24694 *	US-PATENT-3,561,828	c 15	N71-26189 *
US-PATENT-3,526,845	c 09	N71-13531 *	US-PATENT-3,538,053	c 27	N78-17214 *	US-PATENT-3,562,575	c 09	N71-26182 *
US-PATENT-3,526,897	c 09	N71-13521 *	US-PATENT-3,539,905	c 09	N71-24800 *	US-PATENT-3,562,631	c 14	N71-26137 *
US-PATENT-3,527,724	c 27	N78-33228 *	US-PATENT-3,540,045	c 31	N71-24813 *	US-PATENT-3,562,857	c 15	N71-26721 *
US-PATENT-3,529,480	c 15	N71-17692 *	US-PATENT-3,540,048	c 09	N71-24595 *	US-PATENT-3,562,881	c 09	N71-26678 *
US-PATENT-3,529,928	c 17	N71-16393 *	US-PATENT-3,540,050	c 09	N71-24804 *	US-PATENT-3,562,919	c 15	N71-26145 *
US-PATENT-3,530,336	c 09	N71-13518 *	US-PATENT-3,540,054	c 07	N71-24625 *	US-PATENT-3,563,135	c 15	N71-27147 *
US-PATENT-3,531,964	c 15	N71-18616 *	US-PATENT-3,540,056	c 07	N71-24614 *	US-PATENT-3,563,198	c 18	N71-26285 *
US-PATENT-3,531,978	c 14	N71-18481 *	US-PATENT-3,540,250	c 15	N71-24865 *	US-PATENT-3,563,232	c 05	N71-27234 *
US-PATENT-3,531,982	c 15	N71-18132 *	US-PATENT-3,540,449	c 15	N71-24835 *	US-PATENT-3,563,307	c 15	N71-26611 *
US-PATENT-3,531,989	c 33	N71-15641 *	US-PATENT-3,540,615	c 33	N71-25351 *	US-PATENT-3,563,668	c 14	N71-26788 *
US-PATENT-3,532,118	c 12	N71-18615 *	US-PATENT-3,540,676	c 15	N71-24600 *	US-PATENT-3,563,727	c 15	N71-27184 *
US-PATENT-3,532,128	c 15	N71-18580 *	US-PATENT-3,540,790	c 16	N71-26154 *	US-PATENT-3,563,918	c 06	N71-27363 *
US-PATENT-3,532,427	c 21	N71-19212 *	US-PATENT-3,540,802	c 23	N71-24868 *	US-PATENT-3,564,234	c 09	N71-26787 *
US-PATENT-3,532,428	c 30	N71-15990 *	US-PATENT-3,540,942	c 15	N71-24875 *	US-PATENT-3,564,401	c 14	N71-26135 *
US-PATENT-3,532,538	c 18	N71-16046 *	US-PATENT-3,540,989	c 24	N71-25555 *	US-PATENT-3,564,420	c 14	N71-26774 *
US-PATENT-3,532,551	c 03	N71-11049 *	US-PATENT-3,541,250	c 07	N71-24742 *	US-PATENT-3,564,564	c 15	N71-26162 *
US-PATENT-3,532,568	c 17	N71-16044 *	US-PATENT-3,541,312	c 08	N71-24891 *	US-PATENT-3,564,866	c 23	N71-26654 *
US-PATENT-3,532,673	c 06	N71-11238 *	US-PATENT-3,541,314	c 07	N71-24741 *	US-PATENT-3,564,906	c 32	N71-26681 *
US-PATENT-3,532,807	c 07	N71-19433 *	US-PATENT-3,541,346	c 09	N71-24803 *	US-PATENT-3,565,530	c 15	N71-26673 *
US-PATENT-3,532,819	c 10	N71-19468 *	US-PATENT-3,541,361	c 09	N71-24904 *	US-PATENT-3,565,584	c 15	N71-27372 *
US-PATENT-3,532,866	c 08	N71-18802 *	US-PATENT-3,541,422	c 03	N71-24719 *	US-PATENT-3,565,607	c 17	N71-26773 *
US-PATENT-3,532,880	c 24	N71-16095 *	US-PATENT-3,541,428	c 09	N71-24893 *	US-PATENT-3,565,719	c 03	N71-26726 *
US-PATENT-3,532,894	c 23	N71-16100 *	US-PATENT-3,541,439	c 09	N71-24843 *	US-PATENT-3,566,027	c 07	N71-27341 *
US-PATENT-3,532,948	c 10	N71-18772 *	US-PATENT-3,541,450	c 07	N71-24840 *	US-PATENT-3,566,045	c 08	N71-27210 *
US-PATENT-3,532,960	c 03	N71-12255 *	US-PATENT-3,541,459	c 10	N71-24844 *	US-PATENT-3,566,122	c 14	N71-27323 *
US-PATENT-3,532,973	c 15	N71-17822 *	US-PATENT-3,541,479	c 09	N71-24841 *	US-PATENT-3,566,143	c 14	N71-27407 *
US-PATENT-3,532,975	c 10	N71-19421 *	US-PATENT-3,541,486	c 16	N71-28554 *	US-PATENT-3,566,158	c 10	N71-26577 *
US-PATENT-3,532,979	c 10	N71-12554 *	US-PATENT-3,541,679	c 03	N71-24681 *	US-PATENT-3,566,268	c 10	N71-26544 *
US-PATENT-3,532,985	c 07	N71-19773 *	US-PATENT-3,541,825	c 15	N71-24836 *	US-PATENT-3,566,396	c 10	N71-26544 *
US-PATENT-3,533,001	c 07	N71-24583 *	US-PATENT-3,541,875	c 15	N71-24984 *	US-PATENT-3,566,459	c 14	N71-27334 *
US-PATENT-3,533,006	c 10	N72-28241 *	US-PATENT-3,543,050	c 10	N71-24862 *	US-PATENT-3,566,678	c 14	N71-26199 *
US-PATENT-3,533,074	c 08	N71-12502 *	US-PATENT-3,543,159	c 09	N71-24717 *	US-PATENT-3,566,993	c 15	N71-27169 *
US-PATENT-3,533,093	c 10	N71-19417 *	US-PATENT-3,543,839	c 34	N78-17337 *	US-PATENT-3,567,155	c 21	N71-27324 *
US-PATENT-3,533,098	c 08	N71-18594 *	US-PATENT-3,545,208	c 28	N71-25213 *	US-PATENT-3,567,339	c 15	N71-27084 *
US-PATENT-3,534,365	c 07	N71-19854 *	US-PATENT-3,545,226	c 23	N71-24725 *	US-PATENT-3,567,651	c 18	N71-27170 *
US-PATENT-3,534,367	c 02	N71-19287 *	US-PATENT-3,545,252	c 11	N71-24985 *	US-PATENT-3,567,677	c 18	N71-25881 *
US-PATENT-3,534,375	c 07	N71-11285 *	US-PATENT-3,545,262	c 38	N76-28563 *			

US-PATENT-3,567,861	c 10	N71-25865 *	US-PATENT-3,582,828	c 33	N77-21314 *	US-PATENT-3,608,046	c 15	N72-16329 *
US-PATENT-3,567,913	c 10	N71-27137 *	US-PATENT-3,582,960	c 09	N71-28618 *	US-PATENT-3,608,365	c 15	N72-17452 *
US-PATENT-3,567,927	c 14	N71-28863 *	US-PATENT-3,583,058	c 15	N71-29018 *	US-PATENT-3,608,409	c 14	N72-16283 *
US-PATENT-3,568,010	c 09	N71-27232 *	US-PATENT-3,583,239	c 15	N71-29132 *	US-PATENT-3,608,844	c 15	N72-18477 *
US-PATENT-3,568,028	c 10	N71-27136 *	US-PATENT-3,583,322	c 05	N71-28619 *	US-PATENT-3,609,230	c 09	N72-17156 *
US-PATENT-3,568,103	c 10	N71-25900 *	US-PATENT-3,583,419	c 12	N71-28741 *	US-PATENT-3,609,271	c 09	N72-22204 *
US-PATENT-3,568,197	c 07	N71-27056 *	US-PATENT-3,583,744	c 15	N71-29133 *	US-PATENT-3,609,327	c 08	N72-22167 *
US-PATENT-3,568,447	c 15	N71-27432 *	US-PATENT-3,583,777	c 15	N71-28465 *	US-PATENT-3,609,353	c 14	N72-17328 *
US-PATENT-3,568,572	c 15	N71-27754 *	US-PATENT-3,583,815	c 15	N71-28740 *	US-PATENT-3,609,364	c 10	N72-17173 *
US-PATENT-3,568,702	c 10	N71-25899 *	US-PATENT-3,584,311	c 09	N71-28468 *	US-PATENT-3,609,387	c 09	N72-17157 *
US-PATENT-3,568,748	c 15	N71-27091 *	US-PATENT-3,584,660	c 15	N72-12408 *	US-PATENT-3,609,535	c 14	N72-17325 *
US-PATENT-3,568,795	c 15	N71-27067 *	US-PATENT-3,585,514	c 10	N71-33129 *	US-PATENT-3,609,567	c 10	N72-17171 *
US-PATENT-3,568,805	c 15	N71-27146 *	US-PATENT-3,585,882	c 15	N71-33518 *	US-PATENT-3,609,740	c 05	N72-16015 *
US-PATENT-3,568,874	c 15	N71-27068 *	US-PATENT-3,586,261	c 31	N71-33160 *	US-PATENT-3,610,365	c 15	N72-17451 *
US-PATENT-3,568,885	c 14	N71-27005 *	US-PATENT-3,587,306	c 11	N71-33612 *	US-PATENT-3,611,274	c 15	N72-17455 *
US-PATENT-3,569,710	c 14	N71-25901 *	US-PATENT-3,587,424	c 16	N71-33410 *	US-PATENT-3,611,330	c 23	N72-17747 *
US-PATENT-3,569,744	c 09	N71-27016 *	US-PATENT-3,588,220	c 23	N71-33229 *	US-PATENT-3,611,798	c 14	N72-22437 *
US-PATENT-3,569,804	c 09	N71-25999 *	US-PATENT-3,588,331	c 07	N72-12081 *	US-PATENT-3,611,801	c 14	N72-17329 *
US-PATENT-3,569,827	c 18	N71-27397 *	US-PATENT-3,588,359	c 07	N71-33108 *	US-PATENT-3,612,030	c 46	N74-23069 *
US-PATENT-3,569,828	c 14	N71-27186 *	US-PATENT-3,588,483	c 08	N71-33110 *	US-PATENT-3,612,391	c 11	N72-22245 *
US-PATENT-3,569,866	c 10	N71-27271 *	US-PATENT-3,588,648	c 07	N71-33613 *	US-PATENT-3,612,442	c 28	N72-22769 *
US-PATENT-3,569,875	c 07	N71-27191 *	US-PATENT-3,588,671	c 09	N71-33109 *	US-PATENT-3,612,645	c 14	N72-22441 *
US-PATENT-3,569,956	c 10	N71-25917 *	US-PATENT-3,588,705	c 07	N71-33696 *	US-PATENT-3,612,743	c 09	N72-22198 *
US-PATENT-3,569,976	c 07	N71-27233 *	US-PATENT-3,588,751	c 07	N71-33606 *	US-PATENT-3,612,895	c 09	N72-22197 *
US-PATENT-3,570,143	c 10	N71-27365 *	US-PATENT-3,588,874	c 09	N71-33519 *	US-PATENT-3,613,110	c 08	N72-21199 *
US-PATENT-3,570,364	c 28	N71-26779 *	US-PATENT-3,588,883	c 10	N71-33407 *	US-PATENT-3,613,111	c 08	N72-21200 *
US-PATENT-3,570,513	c 12	N71-27332 *	US-PATENT-3,591,420	c 03	N71-33409 *	US-PATENT-3,613,370	c 28	N72-22770 *
US-PATENT-3,570,785	c 28	N71-27585 *	US-PATENT-3,591,426	c 17	N71-33408 *	US-PATENT-3,613,454	c 35	N77-27368 *
US-PATENT-3,570,789	c 02	N71-27088 *	US-PATENT-3,591,885	c 15	N72-11390 *	US-PATENT-3,613,457	c 15	N72-22482 *
US-PATENT-3,571,555	c 15	N71-27135 *	US-PATENT-3,591,960	c 15	N72-12409 *	US-PATENT-3,613,794	c 12	N72-21310 *
US-PATENT-3,571,656	c 09	N71-27001 *	US-PATENT-3,591,967	c 28	N72-11709 *	US-PATENT-3,614,228	c 14	N72-21409 *
US-PATENT-3,571,662	c 10	N71-27366 *	US-PATENT-3,592,422	c 15	N72-11391 *	US-PATENT-3,614,327	c 08	N72-22162 *
US-PATENT-3,571,693	c 09	N71-27364 *	US-PATENT-3,592,478	c 09	N72-11224 *	US-PATENT-3,614,343	c 07	N72-21119 *
US-PATENT-3,571,699	c 09	N71-27053 *	US-PATENT-3,592,505	c 05	N72-11085 *	US-PATENT-3,614,431	c 14	N72-21408 *
US-PATENT-3,571,700	c 14	N71-27325 *	US-PATENT-3,592,545	c 14	N72-11364 *	US-PATENT-3,614,475	c 10	N72-16172 *
US-PATENT-3,571,707	c 10	N71-27338 *	US-PATENT-3,592,559	c 02	N72-11018 *	US-PATENT-3,614,557	c 26	N72-21701 *
US-PATENT-3,571,800	c 10	N71-27272 *	US-PATENT-3,592,628	c 15	N72-11387 *	US-PATENT-3,614,587	c 09	N72-22196 *
US-PATENT-3,571,801	c 08	N71-27255 *	US-PATENT-3,592,768	c 15	N72-11389 *	US-PATENT-3,614,648	c 09	N72-21247 *
US-PATENT-3,572,089	c 14	N71-27185 *	US-PATENT-3,593,001	c 15	N72-11392 *	US-PATENT-3,614,772	c 08	N72-22163 *
US-PATENT-3,572,104	c 28	N71-27094 *	US-PATENT-3,593,024	c 24	N72-11595 *	US-PATENT-3,614,898	c 15	N72-21462 *
US-PATENT-3,572,112	c 15	N71-27006 *	US-PATENT-3,593,132	c 09	N72-11225 *	US-PATENT-3,614,899	c 09	N72-22195 *
US-PATENT-3,572,610	c 28	N71-27095 *	US-PATENT-3,593,138	c 07	N72-11149 *	US-PATENT-3,615,021	c 15	N72-22483 *
US-PATENT-3,572,935	c 14	N71-27215 *	US-PATENT-3,593,175	c 10	N72-11256 *	US-PATENT-3,615,241	c 15	N72-21465 *
US-PATENT-3,573,078	c 27	N82-29451 *	US-PATENT-3,593,180	c 07	N72-11150 *	US-PATENT-3,615,465	c 06	N72-21094 *
US-PATENT-3,573,470	c 74	N78-33913 *	US-PATENT-3,593,194	c 16	N72-12440 *	US-PATENT-3,615,853	c 03	N72-22042 *
US-PATENT-3,573,504	c 33	N78-17294 *	US-PATENT-3,594,790	c 07	N72-12080 *	US-PATENT-3,616,338	c 15	N72-21466 *
US-PATENT-3,573,583	c 09	N71-28886 *	US-PATENT-3,594,803	c 09	N72-12136 *	US-PATENT-3,616,528	c 03	N72-22041 *
US-PATENT-3,573,797	c 08	N71-27057 *	US-PATENT-3,596,465	c 28	N72-11708 *	US-PATENT-3,617,804	c 25	N72-24753 *
US-PATENT-3,573,977	c 15	N71-28582 *	US-PATENT-3,596,510	c 14	N72-11363 *	US-PATENT-3,619,896	c 15	N72-22487 *
US-PATENT-3,573,986	c 03	N71-28579 *	US-PATENT-3,596,554	c 15	N72-11385 *	US-PATENT-3,619,924	c 11	N72-22247 *
US-PATENT-3,573,996	c 18	N71-29040 *	US-PATENT-3,596,863	c 15	N72-11386 *	US-PATENT-3,620,018	c 28	N72-22771 *
US-PATENT-3,574,057	c 22	N71-28759 *	US-PATENT-3,597,281	c 03	N72-11062 *	US-PATENT-3,620,069	c 14	N72-22440 *
US-PATENT-3,574,084	c 14	N71-28933 *	US-PATENT-3,598,921	c 08	N72-11171 *	US-PATENT-3,620,076	c 11	N72-22246 *
US-PATENT-3,574,277	c 15	N71-28467 *	US-PATENT-3,599,216	c 07	N72-11148 *	US-PATENT-3,620,083	c 14	N72-22438 *
US-PATENT-3,574,286	c 11	N71-27036 *	US-PATENT-3,599,335	c 08	N72-11172 *	US-PATENT-3,620,095	c 15	N72-21463 *
US-PATENT-3,574,438	c 07	N71-29065 *	US-PATENT-3,599,443	c 05	N72-11084 *	US-PATENT-3,620,585	c 15	N72-22490 *
US-PATENT-3,574,448	c 23	N71-29123 *	US-PATENT-3,599,489	c 14	N72-11365 *	US-PATENT-3,620,595	c 14	N72-22445 *
US-PATENT-3,574,462	c 14	N71-29041 *	US-PATENT-3,600,046	c 15	N72-11388 *	US-PATENT-3,620,606	c 23	N72-22673 *
US-PATENT-3,574,467	c 23	N71-29125 *	US-PATENT-3,600,599	c 33	N78-17296 *	US-PATENT-3,620,718	c 17	N72-22535 *
US-PATENT-3,574,470	c 14	N71-28993 *	US-PATENT-3,602,920	c 11	N72-17183 *	US-PATENT-3,620,784	c 18	N72-23581 *
US-PATENT-3,574,770	c 06	N71-27254 *	US-PATENT-3,602,923	c 05	N72-22093 *	US-PATENT-3,620,791	c 18	N72-22566 *
US-PATENT-3,575,336	c 15	N71-27214 *	US-PATENT-3,602,979	c 15	N72-22492 *	US-PATENT-3,620,846	c 31	N72-22874 *
US-PATENT-3,575,585	c 14	N71-27058 *	US-PATENT-3,602,984	c 26	N72-17820 *	US-PATENT-3,621,130	c 08	N72-22164 *
US-PATENT-3,575,597	c 14	N71-27090 *	US-PATENT-3,603,092	c 28	N72-17843 *	US-PATENT-3,621,193	c 15	N72-23497 *
US-PATENT-3,575,602	c 16	N71-27183 *	US-PATENT-3,603,093	c 28	N72-18766 *	US-PATENT-3,621,194	c 15	N72-22491 *
US-PATENT-3,575,638	c 09	N71-26133 *	US-PATENT-3,603,260	c 35	N72-17947 *	US-PATENT-3,621,228	c 08	N72-22165 *
US-PATENT-3,575,641	c 10	N71-26334 *	US-PATENT-3,603,285	c 23	N75-29192 *	US-PATENT-3,621,277	c 10	N72-22236 *
US-PATENT-3,576,107	c 28	N71-26781 *	US-PATENT-3,603,382	c 33	N72-17948 *	US-PATENT-3,621,285	c 09	N72-22200 *
US-PATENT-3,576,127	c 14	N71-26161 *	US-PATENT-3,603,433	c 15	N72-17450 *	US-PATENT-3,621,287	c 09	N72-22201 *
US-PATENT-3,576,135	c 15	N71-26635 *	US-PATENT-3,603,532	c 30	N72-17873 *	US-PATENT-3,621,290	c 09	N72-22202 *
US-PATENT-3,576,301	c 02	N71-26110 *	US-PATENT-3,603,683	c 14	N72-17326 *	US-PATENT-3,621,294	c 09	N72-23171 *
US-PATENT-3,576,656	c 18	N71-26772 *	US-PATENT-3,603,686	c 16	N72-13437 *	US-PATENT-3,621,330	c 33	N77-21316 *
US-PATENT-3,576,669	c 15	N71-29032 *	US-PATENT-3,603,690	c 14	N72-17323 *	US-PATENT-3,621,362	c 09	N72-22203 *
US-PATENT-3,576,723	c 09	N71-28691 *	US-PATENT-3,603,722	c 07	N72-17109 *	US-PATENT-3,621,372	c 09	N72-25249 *
US-PATENT-3,576,786	c 06	N71-28620 *	US-PATENT-3,603,772	c 08	N72-22166 *	US-PATENT-3,621,406	c 09	N72-33204 *
US-PATENT-3,577,014	c 10	N71-28860 *	US-PATENT-3,603,798	c 09	N72-17152 *	US-PATENT-3,621,407	c 09	N72-21245 *
US-PATENT-3,577,092	c 07	N71-28430 *	US-PATENT-3,603,864	c 09	N72-17154 *	US-PATENT-3,621,565	c 09	N72-22199 *
US-PATENT-3,577,356	c 06	N73-30102 *	US-PATENT-3,603,892	c 09	N72-17155 *	US-PATENT-3,623,030	c 08	N72-21198 *
US-PATENT-3,578,755	c 14	N71-29134 *	US-PATENT-3,603,946	c 09	N72-17153 *	US-PATENT-3,623,094	c 10	N72-22235 *
US-PATENT-3,578,756	c 11	N71-28629 *	US-PATENT-3,603,974	c 14	N72-18411 *	US-PATENT-3,623,107	c 07	N72-21117 *
US-PATENT-3,578,758	c 14	N71-28992 *	US-PATENT-3,603,976	c 08	N72-18184 *	US-PATENT-3,623,114	c 07	N72-22127 *
US-PATENT-3,578,838	c 16	N71-29131 *	US-PATENT-3,605,032	c 10	N72-17172 *	US-PATENT-3,623,359	c 35	N77-27367 *
US-PATENT-3,578,867	c 14	N71-28994 *	US-PATENT-3,605,424	c 15	N72-17453 *	US-PATENT-3,623,360	c 14	N72-21405 *
US-PATENT-3,578,957	c 08	N71-29033 *	US-PATENT-3,605,482	c 14	N72-16282 *	US-PATENT-3,623,361	c 14	N72-21407 *
US-PATENT-3,578,988	c 09	N71-29139 *	US-PATENT-3,605,495	c 14	N72-17327 *	US-PATENT-3,623,394	c 15	N72-22488 *
US-PATENT-3,578,992	c 09	N71-28421 *	US-PATENT-3,605,519	c 14	N72-17324 *	US-PATENT-3,623,628	c 15	N72-22489 *
US-PATENT-3,579,041	c 09	N71-29008 *	US-PATENT-3,606,212	c 31	N72-18859 *	US-PATENT-3,623,861	c 17	N72-22530 *
US-PATENT-3,579,103	c 14	N71-28991 *	US-PATENT-3,606,470	c 46	N74-23068 *	US-PATENT-3,624,496	c 15	N72-21464 *
US-PATENT-3,579,122	c 08	N71-29034 *	US-PATENT-3,606,522	c 23	N72-23695 *	US-PATENT-3,624,598	c 21	N72-22619 *
US-PATENT-3,579,146	c 08	N71-29138 *	US-PATENT-3,606,979	c 15	N72-17454 *	US-PATENT-3,624,650	c 07	N72-21118 *
US-PATENT-3,579,147	c 07	N71-28429 *	US-PATENT-3,607,015	c 06	N72-17093 *	US-PATENT-3,624,659	c 09	N72-21246 *
US-PATENT-3,579,168	c 09	N71-29035 *	US-PATENT-3,607,076	c 06	N72-17094 *	US-PATENT-3,624,839	c 05	N72-20098 *
US-PATENT-3,579,242	c 07	N71-28980 *	US-PATENT-3,607,080	c 06	N72-17095 *	US-PATENT-3,625,018	c 15	N72-22484 *
US-PATENT-3,579,390	c 18	N71-28729 *	US-PATENT-3,607,338	c 18	N72-17532 *	US-PATENT-3,625,084	c 15	N72-22485 *
US-PATENT-3,579,412	c 17	N71-28747 *	US-PATENT-3,607,401	c 03	N72-15986 *	US-PATENT-3,625,766	c 03	N72-20032 *
US-PATENT-3,581,492	c 28	N71-28915 *	US-PATENT-3,607,495	c 15	N72-16330 *	US-PATENT-3,626,114	c 35	N79-16246 *

US-PATENT-3,626,189	c 14	N72-20381 *	US-PATENT-3,662,441	c 05	N72-25121 *	US-PATENT-3,694,655	c 25	N72-33696 *
US-PATENT-3,626,218	c 14	N72-22439 *	US-PATENT-3,662,547	c 15	N72-25455 *	US-PATENT-3,694,700	c 09	N72-33205 *
US-PATENT-3,626,298	c 07	N72-20140 *	US-PATENT-3,662,804	c 13	N72-25323 *	US-PATENT-3,694,753	c 07	N72-33146 *
US-PATENT-3,626,308	c 10	N72-20223 *	US-PATENT-3,662,661	c 31	N72-25842 *	US-PATENT-3,694,771	c 09	N73-15235 *
US-PATENT-3,626,828	c 14	N72-20380 *	US-PATENT-3,662,744	c 05	N72-25122 *	US-PATENT-3,695,101	c 11	N73-12264 *
US-PATENT-3,628,113	c 37	N77-27400 *	US-PATENT-3,662,973	c 21	N72-25595 *	US-PATENT-3,696,418	c 09	N73-12211 *
US-PATENT-3,629,068	c 22	N72-20597 *	US-PATENT-3,663,346	c 18	N72-25541 *	US-PATENT-3,696,833	c 11	N73-12265 *
US-PATENT-3,629,161	c 18	N72-22567 *	US-PATENT-3,663,347	c 18	N72-25540 *	US-PATENT-3,697,021	c 15	N73-12486 *
US-PATENT-3,630,276	c 33	N72-20915 *	US-PATENT-3,663,464	c 06	N72-25147 *	US-PATENT-3,697,630	c 15	N73-12489 *
US-PATENT-3,630,304	c 11	N72-20244 *	US-PATENT-3,663,521	c 06	N72-25152 *	US-PATENT-3,697,705	c 35	N77-21392 *
US-PATENT-3,630,627	c 03	N72-20033 *	US-PATENT-3,663,753	c 14	N72-25414 *	US-PATENT-3,697,733	c 08	N73-12176 *
US-PATENT-3,631,339	c 08	N72-20177 *	US-PATENT-3,663,828	c 09	N72-25262 *	US-PATENT-3,697,950	c 08	N73-12177 *
US-PATENT-3,631,351	c 10	N72-20224 *	US-PATENT-3,663,839	c 09	N72-25260 *	US-PATENT-3,697,968	c 21	N73-13644 *
US-PATENT-3,631,382	c 09	N72-20200 *	US-PATENT-3,663,843	c 09	N72-25255 *	US-PATENT-3,698,385	c 05	N73-13114 *
US-PATENT-3,631,737	c 15	N72-28495 *	US-PATENT-3,663,885	c 09	N72-25257 *	US-PATENT-3,698,412	c 14	N73-13418 *
US-PATENT-3,632,081	c 15	N72-20442 *	US-PATENT-3,663,886	c 09	N72-25258 *	US-PATENT-3,698,659	c 11	N73-13257 *
US-PATENT-3,632,140	c 15	N72-20445 *	US-PATENT-3,663,929	c 09	N72-25256 *	US-PATENT-3,698,667	c 02	N73-13008 *
US-PATENT-3,632,242	c 15	N72-20446 *	US-PATENT-3,663,938	c 03	N72-25020 *	US-PATENT-3,698,848	c 15	N73-13464 *
US-PATENT-3,632,923	c 09	N72-20199 *	US-PATENT-3,663,940	c 09	N72-25252 *	US-PATENT-3,699,511	c 21	N73-13643 *
US-PATENT-3,632,996	c 08	N72-20176 *	US-PATENT-3,663,941	c 09	N72-25253 *	US-PATENT-3,699,645	c 14	N73-13417 *
US-PATENT-3,633,048	c 10	N72-20221 *	US-PATENT-3,663,944	c 09	N72-25254 *	US-PATENT-3,699,799	c 15	N73-13463 *
US-PATENT-3,633,110	c 07	N72-20141 *	US-PATENT-3,664,185	c 15	N72-26371 *	US-PATENT-3,699,807	c 14	N73-13416 *
US-PATENT-3,634,383	c 27	N73-22710 *	US-PATENT-3,664,874	c 09	N72-25259 *	US-PATENT-3,699,811	c 14	N73-13415 *
US-PATENT-3,635,216	c 05	N72-20096 *	US-PATENT-3,665,064	c 05	N72-25120 *	US-PATENT-3,700,005	c 15	N73-13462 *
US-PATENT-3,635,537	c 33	N80-14330 *	US-PATENT-3,665,307	c 15	N72-25457 *	US-PATENT-3,700,192	c 31	N73-13898 *
US-PATENT-3,635,765	c 03	N72-20034 *	US-PATENT-3,665,313	c 07	N72-25173 *	US-PATENT-3,700,193	c 30	N73-12884 *
US-PATENT-3,636,539	c 03	N72-20031 *	US-PATENT-3,665,417	c 07	N72-25172 *	US-PATENT-3,700,291	c 15	N73-12488 *
US-PATENT-3,636,564	c 05	N72-22092 *	US-PATENT-3,665,467	c 14	N72-28437 *	US-PATENT-3,700,334	c 14	N73-12446 *
US-PATENT-3,636,623	c 15	N72-20444 *	US-PATENT-3,665,481	c 07	N72-25174 *	US-PATENT-3,700,503	c 18	N73-12604 *
US-PATENT-3,636,711	c 28	N72-20758 *	US-PATENT-3,665,589	c 09	N72-25261 *	US-PATENT-3,700,538	c 15	N73-12487 *
US-PATENT-3,636,966	c 05	N72-20097 *	US-PATENT-3,665,669	c 15	N72-25454 *	US-PATENT-3,700,575	c 14	N73-12448 *
US-PATENT-3,637,051	c 15	N72-20443 *	US-PATENT-3,665,670	c 11	N72-25287 *	US-PATENT-3,700,610	c 10	N73-12244 *
US-PATENT-3,637,170	c 21	N72-21624 *	US-PATENT-3,665,750	c 33	N72-25913 *	US-PATENT-3,700,812	c 09	N73-13209 *
US-PATENT-3,637,312	c 14	N72-20379 *	US-PATENT-3,665,751	c 32	N72-25877 *	US-PATENT-3,700,868	c 08	N73-12175 *
US-PATENT-3,637,842	c 06	N72-20121 *	US-PATENT-3,665,758	c 11	N72-25288 *	US-PATENT-3,700,869	c 14	N73-12444 *
US-PATENT-3,638,002	c 08	N72-21197 *	US-PATENT-3,666,051	c 15	N72-25453 *	US-PATENT-3,700,893	c 14	N73-12445 *
US-PATENT-3,638,066	c 10	N72-20225 *	US-PATENT-3,666,120	c 03	N72-25021 *	US-PATENT-3,700,897	c 23	N73-13660 *
US-PATENT-3,638,103	c 09	N72-21243 *	US-PATENT-3,666,566	c 03	N72-26031 *	US-PATENT-3,700,961	c 17	N73-12547 *
US-PATENT-3,638,114	c 10	N72-20222 *	US-PATENT-3,666,631	c 14	N72-25413 *	US-PATENT-3,701,631	c 07	N73-13149 *
US-PATENT-3,638,114	c 09	N72-21244 *	US-PATENT-3,666,718	c 06	N72-25151 *	US-PATENT-3,701,894	c 08	N73-13187 *
US-PATENT-3,638,224	c 14	N72-22443 *	US-PATENT-3,666,741	c 06	N72-25150 *	US-PATENT-3,702,463	c 32	N73-13921 *
US-PATENT-3,639,250	c 06	N72-22107 *	US-PATENT-3,666,942	c 06	N72-25146 *	US-PATENT-3,702,520	c 15	N73-13467 *
US-PATENT-3,639,510	c 15	N72-22486 *	US-PATENT-3,667,010	c 26	N72-25679 *	US-PATENT-3,702,536	c 28	N73-13773 *
US-PATENT-3,639,809	c 14	N72-22442 *	US-PATENT-3,667,039	c 26	N72-25680 *	US-PATENT-3,702,537	c 15	N73-13466 *
US-PATENT-3,639,835	c 28	N72-22772 *	US-PATENT-3,667,044	c 07	N72-25171 *	US-PATENT-3,702,688	c 31	N73-14854 *
US-PATENT-3,640,256	c 35	N78-17359 *	US-PATENT-3,668,956	c 15	N72-27485 *	US-PATENT-3,702,735	c 23	N73-13661 *
US-PATENT-3,641,470	c 14	N72-22444 *	US-PATENT-3,669,110	c 05	N72-27103 *	US-PATENT-3,702,762	c 06	N73-13129 *
US-PATENT-3,647,276	c 27	N74-23125 *	US-PATENT-3,669,393	c 15	N72-27484 *	US-PATENT-3,702,775	c 06	N73-13128 *
US-PATENT-3,647,529	c 11	N72-23215 *	US-PATENT-3,670,097	c 23	N72-27728 *	US-PATENT-3,702,791	c 15	N73-13465 *
US-PATENT-3,647,924	c 09	N72-23173 *	US-PATENT-3,670,168	c 14	N72-27409 *	US-PATENT-3,702,841	c 18	N73-13562 *
US-PATENT-3,648,043	c 12	N72-25292 *	US-PATENT-3,670,202	c 14	N72-27411 *	US-PATENT-3,702,898	c 10	N73-13235 *
US-PATENT-3,648,083	c 03	N72-23048 *	US-PATENT-3,670,241	c 14	N72-27408 *	US-PATENT-3,702,933	c 23	N73-13662 *
US-PATENT-3,648,152	c 09	N72-27226 *	US-PATENT-3,670,290	c 09	N72-28225 *	US-PATENT-3,702,951	c 09	N73-13208 *
US-PATENT-3,648,209	c 09	N72-25248 *	US-PATENT-3,670,559	c 33	N72-27959 *	US-PATENT-3,702,972	c 16	N73-13489 *
US-PATENT-3,648,250	c 08	N72-25207 *	US-PATENT-3,670,563	c 14	N72-27412 *	US-PATENT-3,702,979	c 14	N73-13420 *
US-PATENT-3,648,256	c 08	N72-25206 *	US-PATENT-3,670,564	c 11	N72-27262 *	US-PATENT-3,704,284	c 74	N81-19898 *
US-PATENT-3,648,275	c 28	N72-23810 *	US-PATENT-3,670,890	c 05	N72-27102 *	US-PATENT-3,704,659	c 14	N73-14427 *
US-PATENT-3,648,461	c 35	N74-22095 *	US-PATENT-3,671,105	c 26	N72-27784 *	US-PATENT-3,705,255	c 15	N73-14469 *
US-PATENT-3,648,516	c 15	N72-25448 *	US-PATENT-3,671,329	c 14	N72-27410 *	US-PATENT-3,705,288	c 15	N73-14468 *
US-PATENT-3,649,242	c 26	N72-28762 *	US-PATENT-3,671,497	c 06	N72-27144 *	US-PATENT-3,705,289	c 09	N73-14214 *
US-PATENT-3,649,353	c 15	N72-25447 *	US-PATENT-3,671,798	c 10	N72-27246 *	US-PATENT-3,705,316	c 07	N73-14130 *
US-PATENT-3,649,356	c 11	N72-25284 *	US-PATENT-3,672,999	c 03	N72-27053 *	US-PATENT-3,705,406	c 14	N73-14429 *
US-PATENT-3,649,462	c 09	N72-23172 *	US-PATENT-3,673,424	c 09	N72-27227 *	US-PATENT-3,706,221	c 31	N73-14855 *
US-PATENT-3,649,907	c 05	N72-23085 *	US-PATENT-3,673,440	c 09	N72-27228 *	US-PATENT-3,706,230	c 31	N73-14853 *
US-PATENT-3,649,921	c 07	N72-25170 *	US-PATENT-3,673,332	c 14	N72-28436 *	US-PATENT-3,706,281	c 18	N73-14584 *
US-PATENT-3,649,935	c 14	N72-23457 *	US-PATENT-3,675,376	c 15	N72-28496 *	US-PATENT-3,706,583	c 21	N73-14692 *
US-PATENT-3,650,095	c 03	N72-23809 *	US-PATENT-3,675,712	c 03	N72-28025 *	US-PATENT-3,706,797	c 27	N73-16764 *
US-PATENT-3,650,474	c 28	N81-24258 *	US-PATENT-3,675,910	c 17	N72-28535 *	US-PATENT-3,708,359	c 33	N73-16918 *
US-PATENT-3,651,008	c 09	N72-25247 *	US-PATENT-3,675,935	c 15	N72-29488 *	US-PATENT-3,708,419	c 14	N73-16483 *
US-PATENT-3,651,052	c 18	N72-25539 *	US-PATENT-3,676,084	c 17	N72-28536 *	US-PATENT-3,708,671	c 14	N73-16484 *
US-PATENT-3,653,882	c 03	N72-24037 *	US-PATENT-3,676,674	c 14	N72-29464 *	US-PATENT-3,708,674	c 06	N73-16106 *
US-PATENT-3,654,036	c 03	N72-25019 *	US-PATENT-3,676,754	c 26	N72-28761 *	US-PATENT-3,709,663	c 16	N73-16536 *
US-PATENT-3,655,814	c 27	N81-15104 *	US-PATENT-3,676,772	c 10	N72-28240 *	US-PATENT-3,710,122	c 07	N73-16121 *
US-PATENT-3,656,313	c 23	N72-25619 *	US-PATENT-3,676,787	c 16	N72-28521 *	US-PATENT-3,710,257	c 10	N73-16205 *
US-PATENT-3,656,317	c 33	N72-25911 *	US-PATENT-3,676,809	c 09	N72-29172 *	US-PATENT-3,710,329	c 10	N73-16206 *
US-PATENT-3,656,352	c 14	N72-25411 *	US-PATENT-3,678,191	c 10	N72-31273 *	US-PATENT-3,711,042	c 02	N73-19004 *
US-PATENT-3,656,781	c 15	N72-25450 *	US-PATENT-3,678,654	c 06	N72-31140 *	US-PATENT-3,711,701	c 74	N77-21941 *
US-PATENT-3,657,190	c 23	N82-29358 *	US-PATENT-3,678,685	c 21	N72-31637 *	US-PATENT-3,712,120	c 14	N73-19421 *
US-PATENT-3,657,549	c 14	N72-25409 *	US-PATENT-3,678,771	c 37	N74-23070 *	US-PATENT-3,712,121	c 14	N73-19420 *
US-PATENT-3,657,644	c 14	N72-24477 *	US-PATENT-3,679,360	c 04	N72-33072 *	US-PATENT-3,712,132	c 14	N73-20478 *
US-PATENT-3,657,928	c 14	N72-25410 *	US-PATENT-3,679,899	c 06	N72-31141 *	US-PATENT-3,712,195	c 14	N73-19419 *
US-PATENT-3,658,295	c 15	N72-25451 *	US-PATENT-3,680,142	c 09	N72-31235 *	US-PATENT-3,712,591	c 15	N73-19458 *
US-PATENT-3,658,569	c 15	N72-25452 *	US-PATENT-3,680,144	c 07	N72-32169 *	US-PATENT-3,713,163	c 09	N73-19234 *
US-PATENT-3,658,608	c 27	N72-25699 *	US-PATENT-3,680,830	c 15	N72-31483 *	US-PATENT-3,713,290	c 28	N73-19793 *
US-PATENT-3,658,974	c 15	N72-24522 *	US-PATENT-3,681,581	c 08	N72-31226 *	US-PATENT-3,713,480	c 05	N73-20137 *
US-PATENT-3,659,043	c 14	N72-25412 *	US-PATENT-3,686,542	c 14	N72-31446 *	US-PATENT-3,713,987	c 15	N73-20514 *
US-PATENT-3,659,053	c 08	N72-25208 *	US-PATENT-3,690,291	c 15	N72-32487 *	US-PATENT-3,714,332	c 15	N73-19457 *
US-PATENT-3,659,148	c 09	N72-25250 *	US-PATENT-3,692,533	c 05	N72-33096 *	US-PATENT-3,714,405	c 10	N73-20253 *
US-PATENT-3,659,184	c 09	N72-25251 *	US-PATENT-3,693,002	c 25	N72-32688 *	US-PATENT-3,714,432	c 14	N73-20475 *
US-PATENT-3,659,225	c 16	N72-25485 *	US-PATENT-3,693,105	c 10	N72-33230 *	US-PATENT-3,714,526	c 09	N73-19235 *
US-PATENT-3,659,292	c 08	N72-25209 *	US-PATENT-3,693,346	c 15	N72-33477 *	US-PATENT-3,714,588	c 09	N73-20231 *
US-PATENT-3,660,240	c 06	N72-25149 *	US-PATENT-3,693,418	c 14	N72-33377 *	US-PATENT-3,714,624	c 14	N73-20474 *
US-PATENT-3,660,434	c 06	N72-25148 *	US-PATENT-3,694,041	c 15	N72-33476 *	US-PATENT-3,714,645	c 08	N73-20217 *
US-PATENT-3,660,704	c 15	N72-25456 *	US-PATENT-3,694,094	c 14	N72-32452 *	US-PATENT-3,714,821	c 14	N73-20476 *
US-PATENT-3,660,851	c 05	N72-25119 *	US-PATENT-3,694,313	c 24	N72-33681 *	US-PATENT-3,714,833	c 11	N73-20267 *
US-PATENT-3,662,337	c 08	N72-25210 *	US-PATENT-3,694,581	c 08	N72-33172 *			

US-PATENT-3,715,092	c 03	N73-20039 *	US-PATENT-3,748,853	c 23	N73-30665 *	US-PATENT-3,775,101	c 37	N74-13179 *
US-PATENT-3,715,152	c 23	N73-20741 *	US-PATENT-3,748,905	c 14	N73-30395 *	US-PATENT-3,775,570	c 35	N78-29421 *
US-PATENT-3,715,590	c 14	N73-20477 *	US-PATENT-3,749,123	c 15	N73-30459 *	US-PATENT-3,776,028	c 35	N74-13129 *
US-PATENT-3,715,600	c 03	N73-20040 *	US-PATENT-3,749,156	c 31	N73-30829 *	US-PATENT-3,776,432	c 37	N74-13178 *
US-PATENT-3,715,680	c 07	N73-20175 *	US-PATENT-3,749,205	c 15	N73-30460 *	US-PATENT-3,776,455	c 04	N74-13420 *
US-PATENT-3,715,663	c 07	N73-20174 *	US-PATENT-3,749,332	c 31	N73-32750 *	US-PATENT-3,777,200	c 33	N74-12913 *
US-PATENT-3,715,693	c 09	N73-20232 *	US-PATENT-3,749,362	c 15	N73-30457 *	US-PATENT-3,777,490	c 20	N74-13502 *
US-PATENT-3,715,723	c 07	N73-20176 *	US-PATENT-3,749,831	c 07	N73-30115 *	US-PATENT-3,777,546	c 35	N74-13132 *
US-PATENT-3,715,915	c 32	N73-20740 *	US-PATENT-3,749,911	c 14	N73-30389 *	US-PATENT-3,777,552	c 38	N74-15130 *
US-PATENT-3,718,863	c 10	N73-20254 *	US-PATENT-3,750,016	c 14	N73-30388 *	US-PATENT-3,777,605	c 39	N74-13131 *
US-PATENT-3,719,891	c 07	N73-25160 *	US-PATENT-3,750,035	c 33	N77-13315 *	US-PATENT-3,777,811	c 34	N78-17336 *
US-PATENT-3,720,075	c 33	N73-25952 *	US-PATENT-3,750,067	c 09	N73-30185 *	US-PATENT-3,777,942	c 54	N74-12779 *
US-PATENT-3,720,208	c 05	N73-25125 *	US-PATENT-3,750,131	c 10	N73-30205 *	US-PATENT-3,778,685	c 33	N74-12951 *
US-PATENT-3,723,745	c 14	N73-25462 *	US-PATENT-3,750,168	c 21	N73-30641 *	US-PATENT-3,778,786	c 60	N74-12888 *
US-PATENT-3,728,861	c 28	N73-24783 *	US-PATENT-3,750,479	c 05	N73-30078 *	US-PATENT-3,778,791	c 36	N74-13205 *
US-PATENT-3,729,068	c 15	N73-25512 *	US-PATENT-3,751,123	c 15	N73-30458 *	US-PATENT-3,779,788	c 70	N74-13436 *
US-PATENT-3,729,129	c 08	N73-25206 *	US-PATENT-3,751,727	c 05	N73-32012 *	US-PATENT-3,780,151	c 31	N74-14133 *
US-PATENT-3,729,260	c 14	N73-25463 *	US-PATENT-3,751,733	c 05	N73-32013 *	US-PATENT-3,780,424	c 44	N74-14784 *
US-PATENT-3,729,343	c 14	N73-24472 *	US-PATENT-3,751,913	c 06	N73-30097 *	US-PATENT-3,780,563	c 35	N74-15092 *
US-PATENT-3,729,676	c 14	N73-24473 *	US-PATENT-3,751,980	c 14	N73-32326 *	US-PATENT-3,780,827	c 07	N74-15453 *
US-PATENT-3,729,736	c 07	N73-25161 *	US-PATENT-3,752,556	c 35	N74-17153 *	US-PATENT-3,780,966	c 19	N74-15089 *
US-PATENT-3,729,743	c 07	N73-24176 *	US-PATENT-3,752,559	c 14	N73-30393 *	US-PATENT-3,781,111	c 36	N74-15145 *
US-PATENT-3,729,935	c 28	N73-24784 *	US-PATENT-3,752,564	c 23	N73-30666 *	US-PATENT-3,781,549	c 35	N74-15090 *
US-PATENT-3,730,287	c 11	N73-26238 *	US-PATENT-3,752,665	c 18	N73-32437 *	US-PATENT-3,781,562	c 35	N74-15091 *
US-PATENT-3,730,891	c 18	N73-26572 *	US-PATENT-3,752,847	c 06	N73-30098 *	US-PATENT-3,781,902	c 35	N74-15831 *
US-PATENT-3,731,528	c 12	N73-25262 *	US-PATENT-3,752,986	c 14	N73-30392 *	US-PATENT-3,781,933	c 54	N74-14845 *
US-PATENT-3,731,531	c 14	N73-25460 *	US-PATENT-3,752,993	c 21	N73-30640 *	US-PATENT-3,781,958	c 37	N74-15128 *
US-PATENT-3,732,040	c 15	N73-24513 *	US-PATENT-3,752,996	c 91	N74-13130 *	US-PATENT-3,782,177	c 38	N74-15395 *
US-PATENT-3,732,158	c 17	N73-25469 *	US-PATENT-3,753,148	c 09	N73-32111 *	US-PATENT-3,782,181	c 34	N74-15652 *
US-PATENT-3,732,397	c 33	N74-14935 *	US-PATENT-3,754,236	c 08	N73-32081 *	US-PATENT-3,782,205	c 35	N74-15094 *
US-PATENT-3,732,405	c 10	N73-25240 *	US-PATENT-3,754,263	c 09	N73-32110 *	US-PATENT-3,782,334	c 51	N74-15778 *
US-PATENT-3,732,409	c 08	N73-26175 *	US-PATENT-3,754,976	c 15	N73-32360 *	US-PATENT-3,782,698	c 35	N74-15093 *
US-PATENT-3,732,567	c 14	N73-25461 *	US-PATENT-3,755,265	c 06	N73-33076 *	US-PATENT-3,782,699	c 35	N74-15126 *
US-PATENT-3,733,350	c 06	N73-26100 *	US-PATENT-3,755,283	c 06	N73-32029 *	US-PATENT-3,782,737	c 37	N74-15125 *
US-PATENT-3,733,424	c 32	N73-26910 *	US-PATENT-3,755,686	c 03	N73-31988 *	US-PATENT-3,782,825	c 35	N74-15146 *
US-PATENT-3,733,463	c 14	N73-26430 *	US-PATENT-3,756,920	c 05	N73-32011 *	US-PATENT-3,782,835	c 74	N74-15095 *
US-PATENT-3,734,432	c 02	N73-26004 *	US-PATENT-3,757,183	c 09	N73-32107 *	US-PATENT-3,782,904	c 35	N74-15127 *
US-PATENT-3,735,206	c 10	N73-25243 *	US-PATENT-3,757,476	c 31	N73-32749 *	US-PATENT-3,783,250	c 62	N74-14920 *
US-PATENT-3,735,591	c 25	N73-25760 *	US-PATENT-3,757,568	c 14	N73-32323 *	US-PATENT-3,783,354	c 33	N74-14956 *
US-PATENT-3,736,453	c 33	N77-22386 *	US-PATENT-3,757,659	c 14	N73-32322 *	US-PATENT-3,783,399	c 33	N74-14939 *
US-PATENT-3,736,607	c 02	N73-26006 *	US-PATENT-3,758,112	c 05	N73-32014 *	US-PATENT-3,783,443	c 35	N74-16135 *
US-PATENT-3,736,764	c 05	N73-26071 *	US-PATENT-3,758,718	c 10	N73-32143 *	US-PATENT-3,784,499	c 27	N74-17283 *
US-PATENT-3,736,849	c 14	N73-26431 *	US-PATENT-3,758,741	c 15	N73-32358 *	US-PATENT-3,785,836	c 27	N82-29452 *
US-PATENT-3,736,938	c 05	N73-27062 *	US-PATENT-3,758,781	c 14	N73-32317 *	US-PATENT-3,787,959	c 37	N74-18128 *
US-PATENT-3,736,956	c 15	N73-26472 *	US-PATENT-3,758,877	c 16	N73-32391 *	US-PATENT-3,788,163	c 37	N74-18127 *
US-PATENT-3,737,117	c 31	N73-26876 *	US-PATENT-3,759,152	c 14	N73-32319 *	US-PATENT-3,789,654	c 25	N74-18551 *
US-PATENT-3,737,118	c 15	N73-25513 *	US-PATENT-3,759,249	c 05	N73-32015 *	US-PATENT-3,789,920	c 34	N74-18552 *
US-PATENT-3,737,121	c 02	N73-26005 *	US-PATENT-3,759,443	c 28	N73-32606 *	US-PATENT-3,789,947	c 37	N74-18125 *
US-PATENT-3,737,181	c 33	N73-26958 *	US-PATENT-3,759,588	c 15	N73-32359 *	US-PATENT-3,790,037	c 54	N74-17853 *
US-PATENT-3,737,217	c 05	N73-26072 *	US-PATENT-3,759,672	c 14	N73-32320 *	US-PATENT-3,790,347	c 37	N74-18123 *
US-PATENT-3,737,231	c 07	N73-26119 *	US-PATENT-3,759,746	c 09	N73-32108 *	US-PATENT-3,790,409	c 44	N74-19693 *
US-PATENT-3,737,237	c 26	N73-26751 *	US-PATENT-3,759,747	c 44	N74-19692 *	US-PATENT-3,790,432	c 37	N74-18126 *
US-PATENT-3,737,639	c 10	N73-26230 *	US-PATENT-3,759,787	c 22	N73-32528 *	US-PATENT-3,790,650	c 31	N74-18124 *
US-PATENT-3,737,676	c 10	N73-26229 *	US-PATENT-3,760,239	c 09	N73-32112 *	US-PATENT-3,790,795	c 35	N74-18088 *
US-PATENT-3,737,757	c 10	N73-26228 *	US-PATENT-3,760,248	c 10	N73-32145 *	US-PATENT-3,790,906	c 33	N74-17927 *
US-PATENT-3,737,762	c 14	N73-28486 *	US-PATENT-3,760,257	c 09	N73-32109 *	US-PATENT-3,791,207	c 09	N74-17955 *
US-PATENT-3,737,776	c 07	N73-26118 *	US-PATENT-3,760,268	c 14	N73-32318 *	US-PATENT-3,792,399	c 33	N74-17928 *
US-PATENT-3,737,781	c 10	N73-25241 *	US-PATENT-3,760,394	c 10	N73-32144 *	US-PATENT-3,793,109	c 31	N74-18089 *
US-PATENT-3,737,815	c 09	N73-26195 *	US-PATENT-3,762,884	c 17	N73-32414 *	US-PATENT-3,795,134	c 09	N74-19528 *
US-PATENT-3,737,824	c 26	N73-26752 *	US-PATENT-3,762,918	c 17	N73-32415 *	US-PATENT-3,795,448	c 72	N74-19310 *
US-PATENT-3,737,905	c 14	N73-26432 *	US-PATENT-3,763,204	c 06	N73-32030 *	US-PATENT-3,795,840	c 33	N74-17929 *
US-PATENT-3,737,912	c 07	N73-26117 *	US-PATENT-3,763,552	c 26	N73-32571 *	US-PATENT-3,795,858	c 35	N74-18090 *
US-PATENT-3,739,646	c 04	N76-26175 *	US-PATENT-3,763,691	c 14	N73-32327 *	US-PATENT-3,795,862	c 33	N74-17930 *
US-PATENT-3,740,671	c 10	N73-27171 *	US-PATENT-3,763,708	c 35	N74-18323 *	US-PATENT-3,795,900	c 35	N74-17885 *
US-PATENT-3,740,725	c 08	N73-26176 *	US-PATENT-3,763,740	c 11	N73-32152 *	US-PATENT-3,795,910	c 44	N74-19870 *
US-PATENT-3,741,001	c 14	N73-27376 *	US-PATENT-3,763,928	c 33	N73-32818 *	US-PATENT-3,796,473	c 37	N74-20063 *
US-PATENT-3,742,316	c 09	N73-27150 *	US-PATENT-3,764,097	c 02	N74-10034 *	US-PATENT-3,796,592	c 24	N74-19769 *
US-PATENT-3,744,128	c 09	N73-28083 *	US-PATENT-3,764,209	c 14	N73-33361 *	US-PATENT-3,797,098	c 37	N74-21057 *
US-PATENT-3,744,148	c 14	N73-28489 *	US-PATENT-3,764,220	c 16	N73-33397 *	US-PATENT-3,797,919	c 70	N74-21300 *
US-PATENT-3,744,247	c 28	N73-27699 *	US-PATENT-3,764,790	c 33	N74-10223 *	US-PATENT-3,798,741	c 31	N74-21059 *
US-PATENT-3,744,294	c 14	N73-27379 *	US-PATENT-3,764,850	c 33	N74-10195 *	US-PATENT-3,798,748	c 37	N74-21055 *
US-PATENT-3,744,305	c 12	N73-28144 *	US-PATENT-3,764,833	c 33	N74-10194 *	US-PATENT-3,798,778	c 19	N74-21015 *
US-PATENT-3,744,320	c 14	N73-28487 *	US-PATENT-3,765,229	c 35	N74-10415 *	US-PATENT-3,798,896	c 37	N74-21060 *
US-PATENT-3,744,480	c 05	N73-27941 *	US-PATENT-3,765,958	c 26	N74-10521 *	US-PATENT-3,799,149	c 52	N74-20728 *
US-PATENT-3,744,510	c 15	N73-27406 *	US-PATENT-3,766,315	c 32	N74-10132 *	US-PATENT-3,799,475	c 02	N74-20646 *
US-PATENT-3,744,738	c 14	N73-27378 *	US-PATENT-3,766,380	c 35	N74-11284 *	US-PATENT-3,799,793	c 74	N74-20008 *
US-PATENT-3,744,739	c 15	N77-10112 *	US-PATENT-3,767,212	c 37	N74-10474 *	US-PATENT-3,799,813	c 76	N74-20329 *
US-PATENT-3,744,794	c 14	N73-27377 *	US-PATENT-3,769,544	c 31	N78-17238 *	US-PATENT-3,800,074	c 36	N74-20009 *
US-PATENT-3,744,912	c 16	N73-30476 *	US-PATENT-3,769,623	c 32	N74-11000 *	US-PATENT-3,800,082	c 71	N74-21014 *
US-PATENT-3,744,913	c 14	N73-28490 *	US-PATENT-3,769,689	c 37	N74-11301 *	US-PATENT-3,800,224	c 32	N74-19790 *
US-PATENT-3,744,972	c 17	N73-27446 *	US-PATENT-3,769,834	c 52	N74-10975 *	US-PATENT-3,800,227	c 32	N74-20809 *
US-PATENT-3,745,082	c 18	N73-30532 *	US-PATENT-3,770,021	c 33	N74-11050 *	US-PATENT-3,800,237	c 32	N74-19788 *
US-PATENT-3,745,089	c 06	N73-27086 *	US-PATENT-3,770,903	c 35	N74-11283 *	US-PATENT-3,800,253	c 37	N74-21056 *
US-PATENT-3,745,090	c 04	N73-27052 *	US-PATENT-3,770,933	c 37	N74-11300 *	US-PATENT-3,801,617	c 37	N74-21058 *
US-PATENT-3,745,149	c 06	N73-27980 *	US-PATENT-3,771,037	c 08	N74-10942 *	US-PATENT-3,802,249	c 35	N74-21019 *
US-PATENT-3,745,255	c 07	N73-28012 *	US-PATENT-3,771,040	c 33	N74-11049 *	US-PATENT-3,802,253	c 52	N74-20726 *
US-PATENT-3,745,300	c 15	N73-28515 *	US-PATENT-3,771,074	c 36	N74-11313 *	US-PATENT-3,802,262	c 35	N74-21018 *
US-PATENT-3,745,352	c 08	N73-30135 *	US-PATENT-3,771,959	c 25	N74-12813 *	US-PATENT-3,802,660	c 37	N74-21065 *
US-PATENT-3,745,357	c 14	N73-28488 *	US-PATENT-3,772,174	c 27	N74-13270 *	US-PATENT-3,802,753	c 37	N74-21064 *
US-PATENT-3,745,410	c 09	N73-30181 *	US-PATENT-3,772,216	c 27	N74-12812 *	US-PATENT-3,802,779	c 74	N74-21304 *
US-PATENT-3,745,475	c 14	N73-30386 *	US-PATENT-3,772,220	c 27	N74-12814 *	US-PATENT-3,803,090	c 27	N74-21156 *
US-PATENT-3,745,739	c 15	N73-27405 *	US-PATENT-3,772,272	c 33	N74-12887 *	US-PATENT-3,803,393	c 60	N74-20836 *
US-PATENT-3,745,816	c 33	N73-27796 *	US-PATENT-3,772,418	c 31	N74-13177 *	US-PATENT-3,803,445	c 32	N74-20813 *
US-PATENT-3,746,998	c 07	N73-30113 *	US-PATENT-3,772,691	c 32	N74-12912 *	US-PATENT-3,803,617	c 32	N74-20863 *
US-PATENT-3,747,111	c 07	N73-28013 *	US-PATENT-3,773,038	c 52	N74-12778 *	US-PATENT-3,804,472	c 37	N74-21061 *
US-PATENT-3,748,722	c 15	N73-33383 *	US-PATENT-3,773,913	c 46	N74-13011 *	US-PATENT-3,804,506	c 33	N74-20861 *

US-PATENT-3,804,525	c 36	N74-21091 *	US-PATENT-3,832,781	c 35	N74-32877 *	US-PATENT-3,875,584	c 32	N75-21485 *
US-PATENT-3,804,703	c 37	N74-21063 *	US-PATENT-3,832,903	c 35	N74-32878 *	US-PATENT-3,877,833	c 37	N75-25186 *
US-PATENT-3,805,266	c 32	N74-20864 *	US-PATENT-3,833,322	c 31	N74-32917 *	US-PATENT-3,878,464	c 32	N75-24981 *
US-PATENT-3,805,303	c 54	N74-20725 *	US-PATENT-3,833,336	c 25	N74-33378 *	US-PATENT-3,881,132	c 33	N77-21315 *
US-PATENT-3,805,622	c 35	N74-21062 *	US-PATENT-3,833,857	c 33	N74-32660 *	US-PATENT-3,882,417	c 36	N78-17366 *
US-PATENT-3,806,756	c 33	N74-21850 *	US-PATENT-3,835,318	c 35	N74-34857 *	US-PATENT-3,882,530	c 76	N75-25730 *
US-PATENT-3,806,802	c 35	N74-21017 *	US-PATENT-3,837,285	c 85	N74-34672 *	US-PATENT-3,882,634	c 51	N75-25503 *
US-PATENT-3,806,815	c 32	N74-20811 *	US-PATENT-3,837,908	c 76	N79-16678 *	US-PATENT-3,882,719	c 14	N75-24794 *
US-PATENT-3,806,816	c 32	N74-20810 *	US-PATENT-3,840,829	c 33	N74-34638 *	US-PATENT-3,882,732	c 12	N75-24774 *
US-PATENT-3,806,831	c 33	N74-20862 *	US-PATENT-3,841,973	c 35	N75-12272 *	US-PATENT-3,882,846	c 05	N75-24716 *
US-PATENT-3,806,834	c 36	N76-18427 *	US-PATENT-3,842,485	c 37	N75-12326 *	US-PATENT-3,883,095	c 07	N75-24736 *
US-PATENT-3,806,835	c 33	N74-20859 *	US-PATENT-3,842,509	c 35	N75-12273 *	US-PATENT-3,883,215	c 35	N75-25124 *
US-PATENT-3,806,932	c 33	N74-20860 *	US-PATENT-3,842,656	c 76	N75-12810 *	US-PATENT-3,883,436	c 74	N75-25706 *
US-PATENT-3,807,384	c 34	N74-23039 *	US-PATENT-3,845,466	c 74	N81-19896 *	US-PATENT-3,883,689	c 35	N75-25123 *
US-PATENT-3,807,656	c 18	N74-22136 *	US-PATENT-3,846,243	c 25	N75-12086 *	US-PATENT-3,883,785	c 09	N75-24758 *
US-PATENT-3,808,464	c 33	N74-22814 *	US-PATENT-3,847,115	c 31	N75-12161 *	US-PATENT-3,883,812	c 33	N75-25041 *
US-PATENT-3,808,511	c 33	N74-22864 *	US-PATENT-3,847,141	c 35	N75-12271 *	US-PATENT-3,883,817	c 33	N75-25040 *
US-PATENT-3,808,517	c 33	N74-22885 *	US-PATENT-3,847,208	c 34	N75-12222 *	US-PATENT-3,883,872	c 32	N75-24982 *
US-PATENT-3,809,481	c 35	N74-23040 *	US-PATENT-3,847,652	c 25	N75-12087 *	US-PATENT-3,884,432	c 05	N75-25914 *
US-PATENT-3,809,601	c 37	N74-23064 *	US-PATENT-3,847,689	c 74	N75-12732 *	US-PATENT-3,884,765	c 35	N75-27330 *
US-PATENT-3,809,800	c 33	N74-22865 *	US-PATENT-3,848,190	c 35	N75-12270 *	US-PATENT-3,887,233	c 05	N75-25915 *
US-PATENT-3,809,871	c 52	N74-22771 *	US-PATENT-3,849,554	c 52	N75-15270 *	US-PATENT-3,887,345	c 35	N75-26334 *
US-PATENT-3,810,829	c 31	N74-23065 *	US-PATENT-3,849,668	c 54	N75-12616 *	US-PATENT-3,887,365	c 37	N75-26371 *
US-PATENT-3,811,044	c 34	N74-23066 *	US-PATENT-3,849,720	c 33	N77-26387 *	US-PATENT-3,888,362	c 54	N77-27758 *
US-PATENT-3,811,094	c 33	N74-21851 *	US-PATENT-3,849,865	c 37	N75-13261 *	US-PATENT-3,888,410	c 34	N75-26282 *
US-PATENT-3,811,429	c 52	N74-27566 *	US-PATENT-3,849,875	c 35	N75-13213 *	US-PATENT-3,888,561	c 35	N75-27328 *
US-PATENT-3,811,901	c 27	N82-29454 *	US-PATENT-3,849,877	c 24	N75-13032 *	US-PATENT-3,888,705	c 25	N75-26043 *
US-PATENT-3,812,359	c 35	N74-26949 *	US-PATENT-3,850,169	c 54	N75-13531 *	US-PATENT-3,889,064	c 32	N75-26195 *
US-PATENT-3,812,783	c 28	N74-27425 *	US-PATENT-3,850,388	c 05	N75-12930 *	US-PATENT-3,889,122	c 37	N75-26372 *
US-PATENT-3,812,924	c 35	N74-26945 *	US-PATENT-3,850,567	c 31	N75-13111 *	US-PATENT-3,889,155	c 33	N75-26244 *
US-PATENT-3,812,936	c 37	N74-26976 *	US-PATENT-3,850,754	c 51	N75-13502 *	US-PATENT-3,889,182	c 33	N75-26245 *
US-PATENT-3,813,183	c 37	N74-25968 *	US-PATENT-3,851,162	c 60	N75-13539 *	US-PATENT-3,889,185	c 33	N75-26246 *
US-PATENT-3,813,875	c 15	N74-27360 *	US-PATENT-3,851,238	c 33	N75-13139 *	US-PATENT-3,889,264	c 32	N75-26194 *
US-PATENT-3,813,937	c 34	N74-27859 *	US-PATENT-3,851,250	c 15	N75-13007 *	US-PATENT-3,891,311	c 54	N75-27759 *
US-PATENT-3,814,083	c 52	N74-26626 *	US-PATENT-3,853,003	c 09	N75-12969 *	US-PATENT-3,891,452	c 27	N75-27160 *
US-PATENT-3,814,350	c 18	N74-27397 *	US-PATENT-3,853,075	c 09	N75-12968 *	US-PATENT-3,891,533	c 33	N75-27252 *
US-PATENT-3,814,645	c 24	N74-30001 *	US-PATENT-3,854,097	c 75	N75-13625 *	US-PATENT-3,891,848	c 45	N75-27585 *
US-PATENT-3,814,653	c 24	N74-27035 *	US-PATENT-3,854,113	c 37	N75-13265 *	US-PATENT-3,891,851	c 35	N75-27331 *
US-PATENT-3,814,678	c 25	N74-26948 *	US-PATENT-3,855,873	c 37	N75-13266 *	US-PATENT-3,893,449	c 54	N75-27760 *
US-PATENT-3,814,939	c 25	N74-26947 *	US-PATENT-3,856,042	c 37	N75-15050 *	US-PATENT-3,893,458	c 54	N75-27761 *
US-PATENT-3,815,048	c 33	N74-26732 *	US-PATENT-3,856,402	c 36	N75-15028 *	US-PATENT-3,893,573	c 18	N75-27041 *
US-PATENT-3,815,109	c 52	N74-26625 *	US-PATENT-3,856,471	c 23	N75-14844 *	US-PATENT-3,894,289	c 36	N75-27364 *
US-PATENT-3,815,205	c 33	N74-26977 *	US-PATENT-3,856,534	c 25	N75-14834 *	US-PATENT-3,894,677	c 24	N75-28135 *
US-PATENT-3,815,969	c 35	N74-26946 *	US-PATENT-3,857,031	c 35	N75-15014 *	US-PATENT-3,894,887	c 44	N76-18641 *
US-PATENT-3,816,657	c 32	N74-26654 *	US-PATENT-3,857,045	c 33	N75-14957 *	US-PATENT-3,895,521	c 35	N75-29381 *
US-PATENT-3,816,785	c 73	N74-26767 *	US-PATENT-3,859,119	c 36	N75-15029 *	US-PATENT-3,895,912	c 35	N75-29380 *
US-PATENT-3,817,082	c 34	N74-27730 *	US-PATENT-3,859,714	c 37	N75-15992 *	US-PATENT-3,896,758	c 35	N75-33367 *
US-PATENT-3,817,084	c 31	N74-27900 *	US-PATENT-3,859,714	c 24	N79-25143 *	US-PATENT-3,896,955	c 37	N77-22480 *
US-PATENT-3,817,622	c 75	N74-30156 *	US-PATENT-3,859,736	c 09	N75-15662 *	US-PATENT-3,898,578	c 33	N75-30428 *
US-PATENT-3,817,627	c 35	N74-27860 *	US-PATENT-3,859,840	c 35	N75-15932 *	US-PATENT-3,898,730	c 24	N75-30260 *
US-PATENT-3,818,325	c 44	N74-27519 *	US-PATENT-3,859,845	c 35	N75-15931 *	US-PATENT-3,898,882	c 35	N75-30503 *
US-PATENT-3,818,346	c 33	N74-27705 *	US-PATENT-3,860,342	c 35	N75-16783 *	US-PATENT-3,899,224	c 37	N75-30562 *
US-PATENT-3,818,767	c 35	N74-28097 *	US-PATENT-3,860,393	c 25	N76-18245 *	US-PATENT-3,899,252	c 35	N75-30502 *
US-PATENT-3,818,775	c 37	N74-27901 *	US-PATENT-3,860,858	c 33	N75-15874 *	US-PATENT-3,899,517	c 23	N75-30256 *
US-PATENT-3,818,814	c 31	N74-27902 *	US-PATENT-3,860,921	c 32	N75-15854 *	US-PATENT-3,899,680	c 73	N75-30876 *
US-PATENT-3,819,299	c 37	N74-27904 *	US-PATENT-3,860,946	c 33	N79-11314 *	US-PATENT-3,899,696	c 36	N75-30524 *
US-PATENT-3,819,419	c 34	N74-27861 *	US-PATENT-3,863,881	c 37	N75-18573 *	US-PATENT-3,899,745	c 33	N75-30429 *
US-PATENT-3,819,440	c 32	N74-27612 *	US-PATENT-3,864,060	c 35	N75-19611 *	US-PATENT-3,900,705	c 33	N75-30431 *
US-PATENT-3,819,550	c 27	N74-27037 *	US-PATENT-3,864,239	c 37	N75-19684 *	US-PATENT-3,900,741	c 35	N75-30504 *
US-PATENT-3,820,095	c 33	N74-27862 *	US-PATENT-3,864,542	c 37	N75-19683 *	US-PATENT-3,900,847	c 03	N75-30132 *
US-PATENT-3,820,286	c 37	N74-27905 *	US-PATENT-3,864,797	c 20	N75-18310 *	US-PATENT-3,902,143	c 33	N75-30430 *
US-PATENT-3,820,388	c 35	N74-27865 *	US-PATENT-3,864,953	c 35	N75-19615 *	US-PATENT-3,903,699	c 44	N75-32581 *
US-PATENT-3,820,529	c 52	N74-27864 *	US-PATENT-3,864,960	c 35	N75-19612 *	US-PATENT-3,905,356	c 33	N75-31329 *
US-PATENT-3,820,630	c 07	N74-27490 *	US-PATENT-3,865,442	c 37	N75-18574 *	US-PATENT-3,905,660	c 37	N75-31446 *
US-PATENT-3,820,741	c 37	N74-27903 *	US-PATENT-3,865,975	c 36	N75-19652 *	US-PATENT-3,906,231	c 33	N75-31332 *
US-PATENT-3,820,918	c 07	N74-28226 *	US-PATENT-3,866,022	c 33	N75-19519 *	US-PATENT-3,906,296	c 33	N75-31331 *
US-PATENT-3,821,102	c 34	N74-27744 *	US-PATENT-3,866,114	c 33	N75-18477 *	US-PATENT-3,906,374	c 33	N75-31330 *
US-PATENT-3,821,462	c 33	N74-27683 *	US-PATENT-3,866,128	c 33	N75-19515 *	US-PATENT-3,906,393	c 36	N75-31427 *
US-PATENT-3,821,546	c 33	N74-27682 *	US-PATENT-3,866,210	c 33	N75-19517 *	US-PATENT-3,906,397	c 36	N75-31426 *
US-PATENT-3,821,556	c 74	N74-27866 *	US-PATENT-3,866,233	c 33	N75-19516 *	US-PATENT-3,906,398	c 36	N75-32441 *
US-PATENT-3,824,707	c 09	N74-30597 *	US-PATENT-3,866,863	c 18	N75-19329 *	US-PATENT-3,906,769	c 24	N75-33181 *
US-PATENT-3,825,760	c 19	N74-29410 *	US-PATENT-3,867,677	c 33	N75-19524 *	US-PATENT-3,906,788	c 35	N75-33369 *
US-PATENT-3,826,448	c 08	N74-30421 *	US-PATENT-3,868,591	c 36	N75-19655 *	US-PATENT-3,906,913	c 37	N76-18457 *
US-PATENT-3,826,726	c 25	N74-30502 *	US-PATENT-3,868,830	c 77	N75-20139 *	US-PATENT-3,906,954	c 52	N75-33640 *
US-PATENT-3,826,729	c 20	N74-31269 *	US-PATENT-3,868,856	c 35	N75-19614 *	US-PATENT-3,907,312	c 37	N75-33395 *
US-PATENT-3,826,964	c 33	N74-29556 *	US-PATENT-3,869,151	c 37	N75-19686 *	US-PATENT-3,907,646	c 35	N75-33368 *
US-PATENT-3,827,288	c 71	N74-31148 *	US-PATENT-3,869,160	c 37	N75-19685 *	US-PATENT-3,907,686	c 34	N75-33342 *
US-PATENT-3,827,807	c 89	N74-30886 *	US-PATENT-3,869,210	c 36	N75-19653 *	US-PATENT-3,908,118	c 38	N78-17395 *
US-PATENT-3,828,137	c 32	N74-30524 *	US-PATENT-3,869,212	c 35	N75-19613 *	US-PATENT-3,909,602	c 38	N78-17396 *
US-PATENT-3,828,138	c 32	N74-30523 *	US-PATENT-3,869,597	c 77	N75-20140 *	US-PATENT-3,910,035	c 20	N76-14190 *
US-PATENT-3,828,524	c 34	N74-30608 *	US-PATENT-3,869,615	c 35	N75-19616 *	US-PATENT-3,910,039	c 20	N76-14191 *
US-PATENT-3,829,237	c 07	N74-31270 *	US-PATENT-3,869,624	c 33	N75-18479 *	US-PATENT-3,910,257	c 52	N76-14757 *
US-PATENT-3,829,839	c 60	N76-18800 *	US-PATENT-3,869,659	c 33	N75-19522 *	US-PATENT-3,910,307	c 37	N76-14463 *
US-PATENT-3,830,060	c 44	N74-33379 *	US-PATENT-3,869,667	c 33	N75-19521 *	US-PATENT-3,910,533	c 18	N76-14186 *
US-PATENT-3,830,094	c 35	N74-32879 *	US-PATENT-3,869,676	c 33	N75-19520 *	US-PATENT-3,910,814	c 24	N76-14204 *
US-PATENT-3,830,335	c 07	N74-32418 *	US-PATENT-3,869,680	c 36	N75-19654 *	US-PATENT-3,911,260	c 35	N76-14431 *
US-PATENT-3,830,431	c 07	N74-33218 *	US-PATENT-3,869,779	c 26	N75-19408 *	US-PATENT-3,911,330	c 33	N76-14373 *
US-PATENT-3,830,552	c 37	N74-32921 *	US-PATENT-3,872,395	c 33	N75-19518 *	US-PATENT-3,912,540	c 44	N76-14600 *
US-PATENT-3,830,609	c 31	N74-32920 *	US-PATENT-3,874,240	c 35	N75-25122 *	US-PATENT-3,912,541	c 44	N76-14601 *
US-PATENT-3,830,673	c 28	N74-33209 *	US-PATENT-3,874,635	c 37	N75-25186 *	US-PATENT-3,912,999	c 44	N76-18643 *
US-PATENT-3,831,098	c 33	N74-32711 *	US-PATENT-3,874,677	c 37	N75-21631 *	US-PATENT-3,914,950	c 31	N76-14284 *
US-PATENT-3,831,117	c 33	N74-32712 *	US-PATENT-3,875,332	c 32	N75-21486 *	US-PATENT-3,914,969	c 37	N76-14461 *
US-PATENT-3,831,142	c 32	N74-32598 *	US-PATENT-3,875,394	c 33	N75-26243 *	US-PATENT-3,914,991	c 35	N76-14430 *
US-PATENT-3,832,290	c 20	N74-32919 *	US-PATENT-3,875,404	c 35	N75-23910 *	US-PATENT-3,914,997	c 35	N76-14429 *
US-PATENT-3,832,735	c 54	N74-32546 *	US-PATENT-3,875,435	c 20	N75-24837 *	US-PATENT-3,915,012	c 54	N76-14804 *
US-PATENT-3,832,764	c 37	N74-32918 *	US-PATENT-3,875,500	c 35	N75-21582 *	US-PATENT-3,915,148	c 44	N76-14602 *

US-PATENT-3,915,416	c 15	N76-14158 *	US-PATENT-3,953,674	c 17	N76-22245 *	US-PATENT-3,995,522	c 37	N77-14478 *
US-PATENT-3,915,482	c 37	N76-14460 *	US-PATENT-3,953,734	c 25	N76-22323 *	US-PATENT-3,995,621	c 52	N77-14736 *
US-PATENT-3,915,572	c 36	N76-14447 *	US-PATENT-3,953,792	c 35	N76-22509 *	US-PATENT-3,995,644	c 52	N77-14738 *
US-PATENT-3,916,060	c 27	N76-15310 *	US-PATENT-3,955,034	c 27	N76-23426 *	US-PATENT-3,995,789	c 37	N77-14479 *
US-PATENT-3,916,084	c 33	N76-14371 *	US-PATENT-3,955,941	c 44	N76-29700 *	US-PATENT-3,995,877	c 37	N77-14477 *
US-PATENT-3,916,187	c 35	N76-15431 *	US-PATENT-3,956,032	c 76	N76-25049 *	US-PATENT-3,995,960	c 35	N77-14411 *
US-PATENT-3,916,316	c 32	N76-14321 *	US-PATENT-3,956,050	c 37	N76-24575 *	US-PATENT-3,996,064	c 44	N77-14581 *
US-PATENT-3,916,380	c 60	N76-14818 *	US-PATENT-3,956,233	c 27	N76-24405 *	US-PATENT-3,996,067	c 44	N77-14580 *
US-PATENT-3,916,761	c 75	N76-14931 *	US-PATENT-3,956,833	c 09	N76-24280 *	US-PATENT-3,996,070	c 35	N77-14409 *
US-PATENT-3,919,014	c 24	N76-14203 *	US-PATENT-3,956,919	c 35	N76-24523 *	US-PATENT-3,996,455	c 60	N77-14751 *
US-PATENT-3,919,710	c 33	N76-14372 *	US-PATENT-3,956,932	c 35	N76-24524 *	US-PATENT-3,996,462	c 33	N77-14335 *
US-PATENT-3,920,339	c 27	N76-14264 *	US-PATENT-3,957,030	c 44	N76-23675 *	US-PATENT-3,996,464	c 35	N77-14406 *
US-PATENT-3,920,413	c 44	N76-14595 *	US-PATENT-3,957,037	c 35	N76-24525 *	US-PATENT-3,996,468	c 35	N77-14408 *
US-PATENT-3,920,416	c 44	N76-18642 *	US-PATENT-3,957,044	c 54	N76-24900 *	US-PATENT-3,996,471	c 52	N77-14737 *
US-PATENT-3,922,930	c 37	N76-15457 *	US-PATENT-3,957,104	c 37	N76-23570 *	US-PATENT-3,996,506	c 33	N77-14333 *
US-PATENT-3,923,166	c 37	N76-15460 *	US-PATENT-3,957,675	c 24	N76-24363 *	US-PATENT-3,996,532	c 32	N77-14292 *
US-PATENT-3,924,068	c 32	N76-16249 *	US-PATENT-3,958,188	c 36	N76-24553 *	US-PATENT-3,997,848	c 33	N77-14334 *
US-PATENT-3,924,137	c 72	N76-15860 *	US-PATENT-3,958,238	c 60	N76-23850 *	US-PATENT-3,999,886	c 05	N77-17029 *
US-PATENT-3,924,164	c 33	N76-15373 *	US-PATENT-3,958,553	c 44	N76-24696 *	US-PATENT-4,049,930	c 33	N78-10375 *
US-PATENT-3,924,176	c 35	N76-16390 *	US-PATENT-3,961,997	c 44	N76-28635 *	US-PATENT-4, 356,157	c 25	N83-33977 *
US-PATENT-3,924,183	c 33	N76-16331 *	US-PATENT-3,964,306	c 34	N76-27517 *	US-PATENT-4, 359,503	c 24	N83-33950 *
US-PATENT-3,924,200	c 35	N76-15436 *	US-PATENT-3,964,319	c 07	N76-27232 *	US-PATENT-4,000,682	c 20	N77-17143 *
US-PATENT-3,924,237	c 32	N76-15330 *	US-PATENT-3,964,813	c 37	N76-27567 *	US-PATENT-4,000,929	c 37	N77-17464 *
US-PATENT-3,924,239	c 35	N76-15435 *	US-PATENT-3,964,902	c 34	N76-27515 *	US-PATENT-4,001,552	c 38	N77-17495 *
US-PATENT-3,924,267	c 35	N76-16391 *	US-PATENT-3,964,928	c 44	N76-27664 *	US-PATENT-4,001,602	c 33	N77-17354 *
US-PATENT-3,924,444	c 35	N76-15432 *	US-PATENT-3,965,096	c 27	N76-32315 *	US-PATENT-4,003,004	c 33	N77-17351 *
US-PATENT-3,925,104	c 35	N76-15434 *	US-PATENT-3,965,354	c 33	N76-27473 *	US-PATENT-4,003,084	c 35	N77-17426 *
US-PATENT-3,925,312	c 23	N76-15268 *	US-PATENT-3,965,475	c 33	N76-27472 *	US-PATENT-4,003,257	c 23	N77-17161 *
US-PATENT-3,926,482	c 37	N76-15461 *	US-PATENT-3,966,499	c 44	N76-31666 *	US-PATENT-4,004,292	c 74	N77-18893 *
US-PATENT-3,926,567	c 27	N76-15311 *	US-PATENT-3,966,547	c 25	N76-27383 *	US-PATENT-4,005,574	c 07	N77-17059 *
US-PATENT-3,927,227	c 12	N76-15189 *	US-PATENT-3,967,091	c 37	N76-27568 *	US-PATENT-4,006,631	c 04	N77-19056 *
US-PATENT-3,927,324	c 35	N76-15433 *	US-PATENT-3,971,230	c 37	N76-29590 *	US-PATENT-4,006,999	c 24	N77-19170 *
US-PATENT-3,927,408	c 32	N76-15329 *	US-PATENT-3,971,256	c 91	N76-30131 *	US-PATENT-4,007,430	c 36	N77-19416 *
US-PATENT-3,928,708	c 27	N76-16230 *	US-PATENT-3,971,362	c 52	N76-29894 *	US-PATENT-4,007,434	c 32	N77-18307 *
US-PATENT-3,929,119	c 75	N76-17951 *	US-PATENT-3,971,363	c 52	N76-29895 *	US-PATENT-4,007,601	c 34	N77-19353 *
US-PATENT-3,929,305	c 34	N76-17317 *	US-PATENT-3,971,364	c 52	N76-29896 *	US-PATENT-4,007,623	c 35	N77-18417 *
US-PATENT-3,929,306	c 18	N76-17185 *	US-PATENT-3,971,535	c 05	N76-29217 *	US-PATENT-4,007,891	c 07	N77-18154 *
US-PATENT-3,929,364	c 35	N76-16392 *	US-PATENT-3,971,602	c 37	N76-29588 *	US-PATENT-4,008,348	c 34	N77-18382 *
US-PATENT-3,930,628	c 02	N76-16014 *	US-PATENT-3,971,697	c 25	N76-29379 *	US-PATENT-4,008,407	c 73	N77-18891 *
US-PATENT-3,930,735	c 66	N76-19888 *	US-PATENT-3,971,703	c 51	N76-29891 *	US-PATENT-4,010,455	c 37	N77-19458 *
US-PATENT-3,931,132	c 27	N76-16228 *	US-PATENT-3,971,847	c 44	N76-29704 *	US-PATENT-4,010,455	c 37	N78-31426 *
US-PATENT-3,931,447	c 27	N76-16229 *	US-PATENT-3,971,915	c 35	N76-29552 *	US-PATENT-4,011,719	c 20	N77-20162 *
US-PATENT-3,931,456	c 33	N76-16332 *	US-PATENT-3,971,930	c 74	N76-30053 *	US-PATENT-4,011,756	c 35	N77-20400 *
US-PATENT-3,931,462	c 45	N76-17656 *	US-PATENT-3,971,940	c 35	N76-29551 *	US-PATENT-4,011,854	c 35	N77-20401 *
US-PATENT-3,931,516	c 35	N76-16393 *	US-PATENT-3,972,008	c 36	N76-29575 *	US-PATENT-4,012,018	c 35	N77-20399 *
US-PATENT-3,931,532	c 44	N76-16612 *	US-PATENT-3,972,038	c 17	N76-29347 *	US-PATENT-4,012,123	c 74	N77-20882 *
US-PATENT-3,932,262	c 25	N79-10163 *	US-PATENT-3,972,651	c 44	N76-29701 *	US-PATENT-4,012,237	c 26	N77-20201 *
US-PATENT-3,936,927	c 37	N76-19437 *	US-PATENT-3,972,727	c 44	N76-29699 *	US-PATENT-4,012,696	c 32	N77-20289 *
US-PATENT-3,937,055	c 37	N76-18454 *	US-PATENT-3,976,997	c 62	N76-31946 *	US-PATENT-4,014,745	c 51	N77-22794 *
US-PATENT-3,937,212	c 33	N76-19338 *	US-PATENT-3,977,147	c 39	N76-31562 *	US-PATENT-4,014,798	c 25	N81-17187 *
US-PATENT-3,937,215	c 52	N76-17885 *	US-PATENT-3,977,197	c 44	N76-31667 *	US-PATENT-4,017,959	c 37	N77-23482 *
US-PATENT-3,937,387	c 37	N76-18455 *	US-PATENT-3,977,231	c 35	N76-31489 *	US-PATENT-4,018,080	c 35	N77-22450 *
US-PATENT-3,937,533	c 37	N76-18459 *	US-PATENT-3,977,771	c 74	N76-31998 *	US-PATENT-4,018,085	c 35	N77-22449 *
US-PATENT-3,937,555	c 35	N76-18402 *	US-PATENT-3,977,787	c 35	N76-31490 *	US-PATENT-4,018,092	c 37	N77-22482 *
US-PATENT-3,937,661	c 37	N76-18456 *	US-PATENT-3,977,831	c 45	N76-31714 *	US-PATENT-4,018,409	c 37	N77-23483 *
US-PATENT-3,937,945	c 74	N76-18913 *	US-PATENT-3,978,187	c 37	N76-31524 *	US-PATENT-4,018,423	c 54	N77-21844 *
US-PATENT-3,938,035	c 33	N76-19339 *	US-PATENT-3,978,287	c 32	N76-31372 *	US-PATENT-4,018,532	c 74	N77-22951 *
US-PATENT-3,938,037	c 26	N76-18257 *	US-PATENT-3,978,360	c 33	N76-31409 *	US-PATENT-4,018,533	c 74	N77-22950 *
US-PATENT-3,938,162	c 32	N76-18295 *	US-PATENT-3,978,364	c 31	N76-31365 *	US-PATENT-4,018,649	c 51	N77-25769 *
US-PATENT-3,938,182	c 33	N76-18353 *	US-PATENT-3,978,410	c 03	N76-32140 *	US-PATENT-4,018,971	c 44	N77-22606 *
US-PATENT-3,938,188	c 33	N76-18345 *	US-PATENT-3,978,417	c 36	N76-31512 *	US-PATENT-4,019,179	c 32	N77-21267 *
US-PATENT-3,938,367	c 35	N76-18401 *	US-PATENT-3,978,490	c 33	N76-32457 *	US-PATENT-4,019,868	c 44	N77-22607 *
US-PATENT-3,938,373	c 35	N76-18400 *	US-PATENT-3,982,910	c 44	N77-10636 *	US-PATENT-4,020,632	c 07	N77-23106 *
US-PATENT-3,938,742	c 07	N76-18117 *	US-PATENT-3,983,695	c 20	N77-10148 *	US-PATENT-4,023,266	c 33	N77-26385 *
US-PATENT-3,938,892	c 74	N76-19935 *	US-PATENT-3,983,714	c 31	N77-10229 *	US-PATENT-4,025,327	c 35	N77-24455 *
US-PATENT-3,938,956	c 35	N76-18403 *	US-PATENT-3,983,749	c 09	N77-10071 *	US-PATENT-4,025,783	c 74	N77-26942 *
US-PATENT-3,939,048	c 37	N76-18458 *	US-PATENT-3,983,753	c 52	N77-10780 *	US-PATENT-4,025,866	c 33	N77-24375 *
US-PATENT-3,939,439	c 36	N76-18428 *	US-PATENT-3,983,780	c 28	N77-10213 *	US-PATENT-4,025,875	c 36	N77-25499 *
US-PATENT-3,940,097	c 34	N76-18364 *	US-PATENT-3,983,933	c 34	N77-10463 *	US-PATENT-4,025,876	c 71	N77-26919 *
US-PATENT-3,940,621	c 34	N76-18374 *	US-PATENT-3,984,070	c 02	N77-10001 *	US-PATENT-4,025,891	c 35	N77-24454 *
US-PATENT-3,941,355	c 37	N76-19436 *	US-PATENT-3,984,072	c 15	N77-10113 *	US-PATENT-4,025,950	c 32	N77-24328 *
US-PATENT-3,942,398	c 37	N76-20480 *	US-PATENT-3,984,256	c 44	N77-10635 *	US-PATENT-4,025,964	c 52	N77-25772 *
US-PATENT-3,943,368	c 74	N76-20958 *	US-PATENT-3,984,634	c 32	N77-10392 *	US-PATENT-4,026,527	c 34	N77-24423 *
US-PATENT-3,943,442	c 76	N76-20994 *	US-PATENT-3,984,671	c 43	N77-10584 *	US-PATENT-4,026,655	c 36	N77-25501 *
US-PATENT-3,943,763	c 04	N76-20114 *	US-PATENT-3,984,681	c 35	N77-10492 *	US-PATENT-4,027,212	c 33	N77-26386 *
US-PATENT-3,944,485	c 25	N81-19244 *	US-PATENT-3,984,685	c 47	N77-10753 *	US-PATENT-4,027,265	c 32	N77-24331 *
US-PATENT-3,945,801	c 45	N76-21742 *	US-PATENT-3,984,686	c 35	N77-10493 *	US-PATENT-4,027,273	c 36	N77-25502 *
US-PATENT-3,945,879	c 37	N76-21554 *	US-PATENT-3,984,730	c 33	N77-10429 *	US-PATENT-4,027,494	c 35	N78-12390 *
US-PATENT-3,947,281	c 27	N82-29455 *	US-PATENT-3,984,799	c 33	N77-10428 *	US-PATENT-4,027,524	c 09	N77-27131 *
US-PATENT-3,947,933	c 20	N76-21276 *	US-PATENT-3,985,454	c 74	N77-10899 *	US-PATENT-4,028,939	c 34	N77-27345 *
US-PATENT-3,948,102	c 33	N76-21390 *	US-PATENT-3,987,630	c 37	N77-12402 *	US-PATENT-4,029,470	c 51	N77-27677 *
US-PATENT-3,948,470	c 20	N76-21275 *	US-PATENT-3,988,561	c 37	N77-11397 *	US-PATENT-4,029,500	c 24	N77-27187 *
US-PATENT-3,949,206	c 32	N76-21366 *	US-PATENT-3,988,677	c 32	N77-12240 *	US-PATENT-4,029,838	c 24	N77-27188 *
US-PATENT-3,949,400	c 17	N76-21250 *	US-PATENT-3,988,716	c 60	N77-12721 *	US-PATENT-4,030,047	c 35	N77-27366 *
US-PATENT-3,949,404	c 32	N76-21365 *	US-PATENT-3,988,729	c 32	N77-12239 *	US-PATENT-4,030,348	c 39	N78-10493 *
US-PATENT-3,950,729	c 60	N76-21914 *	US-PATENT-3,988,933	c 35	N77-19385 *	US-PATENT-4,031,389	c 36	N77-26477 *
US-PATENT-3,951,129	c 44	N76-22657 *	US-PATENT-3,989,136	c 37	N77-19457 *	US-PATENT-4,032,089	c 24	N77-28225 *
US-PATENT-3,952,083	c 27	N76-22376 *	US-PATENT-3,989,206	c 09	N77-19076 *	US-PATENT-4,032,089	c 27	N81-14077 *
US-PATENT-3,952,590	c 09	N76-23273 *	US-PATENT-3,989,541	c 44	N77-19571 *	US-PATENT-4,033,119	c 07	N77-28118 *
US-PATENT-3,952,971	c 02	N76-22154 *	US-PATENT-3,989,602	c 24	N77-19171 *	US-PATENT-4,033,132	c 28	N80-10374 *
US-PATENT-3,952,976	c 37	N76-22540 *	US-PATENT-3,990,049	c 60	N77-19760 *	US-PATENT-4,033,183	c 39	N77-28511 *
US-PATENT-3,952,980	c 19	N76-22284 *	US-PATENT-3,990,860	c 27	N77-13217 *	US-PATENT-4,033,286	c 25	N79-28253 *
US-PATENT-3,952,998	c 20	N76-22296 *	US-PATENT-3,990,987	c 37	N77-13418 *	US-PATENT-4,033,316	c 33	N77-28385 *
US-PATENT-3,953,038	c 37	N76-22541 *	US-PATENT-3,994,128	c 07	N77-14025 *	US-PATENT-4,033,334	c 52	N77-28717 *
US-PATENT-3,953,343	c 24	N76-22309 *	US-PATENT-3,995,324	c 52	N77-14735 *	US-PATENT-4,033,349	c 52	N77-28716 *
US-PATENT-3,953,646	c 27	N76-22377 *	US-PATENT-3,995,476	c 35	N77-14407 *	US-PATENT-4,033,479	c 37	N77-28487 *

US-PATENT-4,033,503	c 26	N77-29260 *	US-PATENT-4,063,092	c 35	N78-15461 *	US-PATENT-4,093,354	c 73	N78-32848 *
US-PATENT-4,033,504	c 26	N77-28265 *	US-PATENT-4,063,282	c 39	N78-16387 *	US-PATENT-4,093,382	c 38	N78-32447 *
US-PATENT-4,033,705	c 07	N77-27116 *	US-PATENT-4,063,814	c 74	N78-17866 *	US-PATENT-4,093,771	c 27	N78-32260 *
US-PATENT-4,033,882	c 32	N77-28346 *	US-PATENT-4,063,981	c 24	N78-17149 *	US-PATENT-4,093,917	c 35	N78-32396 *
US-PATENT-4,035,037	c 37	N77-28486 *	US-PATENT-4,064,566	c 27	N78-17215 *	US-PATENT-4,094,073	c 35	N78-32395 *
US-PATENT-4,035,062	c 74	N77-28932 *	US-PATENT-4,064,642	c 54	N78-17675 *	US-PATENT-4,094,758	c 26	N78-32229 *
US-PATENT-4,035,065	c 74	N77-28933 *	US-PATENT-4,064,692	c 37	N78-17384 *	US-PATENT-4,094,775	c 52	N80-14687 *
US-PATENT-4,038,705	c 54	N77-30749 *	US-PATENT-4,065,053	c 44	N78-17460 *	US-PATENT-4,094,862	c 27	N78-32261 *
US-PATENT-4,039-489	c 27	N77-31308 *	US-PATENT-4,065,202	c 35	N78-17357 *	US-PATENT-4,094,943	c 27	N78-32262 *
US-PATENT-4,039-946	c 35	N77-30436 *	US-PATENT-4,065,340	c 24	N78-17150 *	US-PATENT-4,095,593	c 54	N78-32721 *
US-PATENT-4,039,000	c 34	N77-30399 *	US-PATENT-4,065,345	c 27	N78-17205 *	US-PATENT-4,096,315	c 74	N78-32854 *
US-PATENT-4,039,347	c 27	N77-30237 *	US-PATENT-4,066,039	c 37	N78-17383 *	US-PATENT-4,097,194	c 07	N78-33101 *
US-PATENT-4,039,754	c 32	N77-30309 *	US-PATENT-4,067,015	c 17	N78-17140 *	US-PATENT-4,098,142	c 37	N79-10422 *
US-PATENT-4,039,925	c 33	N77-30365 *	US-PATENT-4,067,043	c 74	N78-17865 *	US-PATENT-4,099,799	c 37	N79-10418 *
US-PATENT-4,040,041	c 33	N77-31404 *	US-PATENT-4,067,653	c 74	N78-17867 *	US-PATENT-4,100,331	c 44	N79-10513 *
US-PATENT-4,040,750	c 35	N77-31465 *	US-PATENT-4,067,742	c 27	N78-17206 *	US-PATENT-4,100,487	c 33	N79-10337 *
US-PATENT-4,040,867	c 44	N77-31601 *	US-PATENT-4,068,469	c 07	N78-17055 *	US-PATENT-4,100,531	c 32	N79-10263 *
US-PATENT-4,040,940	c 37	N80-14397 *	US-PATENT-4,068,470	c 07	N78-17056 *	US-PATENT-4,101,195	c 89	N79-10969 *
US-PATENT-4,041,233	c 27	N77-30236 *	US-PATENT-4,068,495	c 31	N78-17237 *	US-PATENT-4,101,644	c 25	N79-10162 *
US-PATENT-4,041,391	c 32	N77-30308 *	US-PATENT-4,068,763	c 54	N78-17676 *	US-PATENT-4,101,780	c 35	N79-10389 *
US-PATENT-4,041,697	c 37	N78-10467 *	US-PATENT-4,069,028	c 34	N78-17335 *	US-PATENT-4,101,891	c 35	N79-10391 *
US-PATENT-4,041,910	c 37	N77-31497 *	US-PATENT-4,069,212	c 27	N78-17213 *	US-PATENT-4,101,961	c 52	N79-10724 *
US-PATENT-4,042,926	c 32	N77-31350 *	US-PATENT-4,069,478	c 60	N78-17691 *	US-PATENT-4,102,580	c 74	N79-11865 *
US-PATENT-4,043,668	c 35	N84-33766 *	US-PATENT-4,069,661	c 07	N78-18067 *	US-PATENT-4,103,550	c 31	N79-11246 *
US-PATENT-4,043,674	c 36	N77-32478 *	US-PATENT-4,070,574	c 74	N78-18905 *	US-PATENT-4,103,619	c 28	N79-11231 *
US-PATENT-4,044,753	c 44	N77-32582 *	US-PATENT-4,072,532	c 27	N78-19302 *	US-PATENT-4,103,712	c 37	N79-11402 *
US-PATENT-4,044,821	c 44	N77-32581 *	US-PATENT-4,075,057	c 73	N78-19920 *	US-PATENT-4,104,018	c 25	N79-11151 *
US-PATENT-4,045,063	c 37	N77-32499 *	US-PATENT-4,077,231	c 31	N78-25256 *	US-PATENT-4,104,084	c 44	N79-11467 *
US-PATENT-4,045,149	c 07	N77-32148 *	US-PATENT-4,077,678	c 44	N78-24608 *	US-PATENT-4,104,091	c 44	N79-11468 *
US-PATENT-4,045,247	c 35	N77-32454 *	US-PATENT-4,077,788	c 28	N78-24365 *	US-PATENT-4,104,134	c 44	N79-11469 *
US-PATENT-4,045,255	c 26	N77-32279 *	US-PATENT-4,077,788	c 28	N81-14103 *	US-PATENT-4,104,134	c 44	N80-16452 *
US-PATENT-4,045,315	c 44	N77-32580 *	US-PATENT-4,077,813	c 26	N78-24333 *	US-PATENT-4,104,873	c 37	N79-11403 *
US-PATENT-4,045,359	c 25	N77-32255 *	US-PATENT-4,077,818	c 44	N78-24609 *	US-PATENT-4,105,261	c 37	N79-11404 *
US-PATENT-4,045,728	c 35	N77-32455 *	US-PATENT-4,077,921	c 24	N78-24290 *	US-PATENT-4,105,517	c 44	N79-11470 *
US-PATENT-4,045,792	c 60	N77-32731 *	US-PATENT-4,078,110	c 34	N78-25350 *	US-PATENT-4,105,966	c 33	N79-11315 *
US-PATENT-4,045,795	c 32	N77-32342 *	US-PATENT-4,078,175	c 76	N78-24950 *	US-PATENT-4,106,218	c 74	N79-13855 *
US-PATENT-4,046,012	c 35	N77-32456 *	US-PATENT-4,078,290	c 37	N78-24544 *	US-PATENT-4,106,587	c 71	N79-14871 *
US-PATENT-4,046,190	c 34	N77-32413 *	US-PATENT-4,078,378	c 37	N78-24545 *	US-PATENT-4,106,687	c 37	N79-13364 *
US-PATENT-4,046,262	c 54	N77-32721 *	US-PATENT-4,079,268	c 32	N78-24391 *	US-PATENT-4,107,363	c 33	N79-12331 *
US-PATENT-4,046,434	c 37	N77-32500 *	US-PATENT-4,080,901	c 20	N78-24275 *	US-PATENT-4,107,627	c 72	N79-13826 *
US-PATENT-4,046,435	c 37	N77-32501 *	US-PATENT-4,081,250	c 44	N78-31527 *	US-PATENT-4,107,919	c 34	N79-13288 *
US-PATENT-4,046,462	c 44	N77-32583 *	US-PATENT-4,082,001	c 35	N78-24515 *	US-PATENT-4,108,241	c 34	N79-13289 *
US-PATENT-4,046,529	c 54	N77-32722 *	US-PATENT-4,082,569	c 44	N78-25527 *	US-PATENT-4,109,213	c 33	N79-22373 *
US-PATENT-4,046,560	c 26	N77-32280 *	US-PATENT-4,083,097	c 44	N78-25528 *	US-PATENT-4,109,644	c 52	N79-18580 *
US-PATENT-4,046,617	c 76	N77-32919 *	US-PATENT-4,083,181	c 07	N78-25089 *	US-PATENT-4,110,683	c 33	N79-18193 *
US-PATENT-4,046,619	c 27	N77-32308 *	US-PATENT-4,083,380	c 37	N78-25426 *	US-PATENT-4,110,703	c 36	N79-18307 *
US-PATENT-4,047,840	c 37	N78-10468 *	US-PATENT-4,083,520	c 15	N78-25119 *	US-PATENT-4,111,041	c 35	N79-14345 *
US-PATENT-4,051,558	c 52	N78-10686 *	US-PATENT-4,083,765	c 35	N78-25391 *	US-PATENT-4,111,058	c 35	N79-14347 *
US-PATENT-4,051,834	c 44	N78-10554 *	US-PATENT-4,084,124	c 44	N78-25531 *	US-PATENT-4,111,068	c 37	N79-14382 *
US-PATENT-4,051,877	c 35	N78-10428 *	US-PATENT-4,084,132	c 33	N78-25319 *	US-PATENT-4,111,184	c 44	N79-14526 *
US-PATENT-4,052,144	c 25	N78-10224 *	US-PATENT-4,084,612	c 34	N78-25351 *	US-PATENT-4,111,718	c 35	N79-14346 *
US-PATENT-4,052,181	c 71	N78-10837 *	US-PATENT-4,084,825	c 07	N78-25090 *	US-PATENT-4,111,729	c 28	N79-14228 *
US-PATENT-4,052,302	c 25	N78-10225 *	US-PATENT-4,084,985	c 44	N78-25529 *	US-PATENT-4,111,775	c 76	N79-14906 *
US-PATENT-4,052,523	c 24	N78-10214 *	US-PATENT-4,085,004	c 73	N78-28913 *	US-PATENT-4,111,851	c 24	N79-14156 *
US-PATENT-4,052,614	c 35	N78-10429 *	US-PATENT-4,085,241	c 44	N78-25530 *	US-PATENT-4,112,357	c 33	N79-14305 *
US-PATENT-4,052,648	c 33	N78-10376 *	US-PATENT-4,085,332	c 25	N78-25148 *	US-PATENT-4,112,497	c 32	N79-14267 *
US-PATENT-4,052,659	c 33	N78-10377 *	US-PATENT-4,087,902	c 33	N78-27326 *	US-PATENT-4,112,875	c 44	N78-33526 *
US-PATENT-4,052,666	c 43	N78-10529 *	US-PATENT-4,087,962	c 34	N78-27357 *	US-PATENT-4,116,131	c 20	N78-32179 *
US-PATENT-4,052,705	c 60	N78-10709 *	US-PATENT-4,087,975	c 44	N78-32542 *	US-PATENT-4,117,669	c 07	N79-10057 *
US-PATENT-4,053,229	c 74	N78-13874 *	US-PATENT-4,088,018	c 37	N78-27424 *	US-PATENT-4,117,731	c 35	N79-10390 *
US-PATENT-4,053,231	c 35	N78-18391 *	US-PATENT-4,088,094	c 51	N78-27733 *	US-PATENT-4,117,749	c 37	N79-10419 *
US-PATENT-4,053,918	c 44	N78-13526 *	US-PATENT-4,088,270	c 07	N78-27121 *	US-PATENT-4,117,881	c 51	N79-10694 *
US-PATENT-4,055,004	c 09	N78-18083 *	US-PATENT-4,088,291	c 37	N78-27425 *	US-PATENT-4,118,014	c 37	N79-10420 *
US-PATENT-4,055,041	c 07	N78-18066 *	US-PATENT-4,088,312	c 37	N78-27423 *	US-PATENT-4,118,315	c 51	N79-10693 *
US-PATENT-4,055,072	c 35	N78-19465 *	US-PATENT-4,088,408	c 74	N78-27904 *	US-PATENT-4,118,427	c 27	N80-32514 *
US-PATENT-4,055,089	c 35	N78-18390 *	US-PATENT-4,088,532	c 25	N78-27226 *	US-PATENT-4,118,620	c 37	N79-10421 *
US-PATENT-4,055,147	c 35	N78-19466 *	US-PATENT-4,088,806	c 24	N78-27180 *	US-PATENT-4,118,665	c 33	N79-10338 *
US-PATENT-4,055,416	c 26	N78-18182 *	US-PATENT-4,088,926	c 75	N78-27913 *	US-PATENT-4,118,666	c 32	N79-10262 *
US-PATENT-4,055,447	c 26	N78-18183 *	US-PATENT-4,088,951	c 35	N78-28411 *	US-PATENT-4,118,671	c 33	N79-10339 *
US-PATENT-4,055,686	c 37	N78-13436 *	US-PATENT-4,088,954	c 35	N78-32397 *	US-PATENT-4,118,701	c 32	N79-10264 *
US-PATENT-4,055,705	c 34	N78-18355 *	US-PATENT-4,088,965	c 36	N78-27402 *	US-PATENT-4,119,581	c 27	N81-14076 *
US-PATENT-4,055,707	c 44	N78-19599 *	US-PATENT-4,088,999	c 44	N78-28594 *	US-PATENT-4,119,926	c 33	N79-11313 *
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US-PATENT-4,244,215	c 04	N81-21047 *	US-PATENT-4,281,102	c 27	N81-29229 *	US-PATENT-4,330,359	c 76	N82-30105 *
US-PATENT-4,244,810	c 09	N82-29330 *	US-PATENT-4,281,384	c 18	N81-29152 *	US-PATENT-4,330,572	c 27	N82-33520 *
US-PATENT-4,244,853	c 27	N81-19296 *	US-PATENT-4,281,708	c 33	N82-24419 *	US-PATENT-4,331,422	c 52	N82-29862 *
US-PATENT-4,244,857	c 27	N81-17260 *	US-PATENT-4,282,479	c 33	N82-24420 *	US-PATENT-4,331,742	c 44	N82-29710 *
US-PATENT-4,245,085	c 27	N81-17262 *	US-PATENT-4,282,525	c 46	N82-12685 *	US-PATENT-4,331,746	c 44	N82-29708 *
US-PATENT-4,245,286	c 33	N81-19392 *	US-PATENT-4,282,752	c 44	N82-16474 *	US-PATENT-4,331,873	c 44	N82-32841 *
US-PATENT-4,245,288	c 33	N81-19393 *	US-PATENT-4,283,705	c 06	N82-16075 *	US-PATENT-4,331,956	c 33	N82-29538 *
US-PATENT-4,245,469	c 44	N81-24519 *	US-PATENT-4,283,995	c 37	N81-32510 *	US-PATENT-4,332,441	c 36	N82-29589 *
US-PATENT-4,245,566	c 31	N81-19343 *	US-PATENT-4,284,034	c 51	N81-32829 *	US-PATENT-4,335,190	c 27	N83-31855 *
US-PATENT-4,245,768	c 37	N81-19455 *	US-PATENT-4,284,461	c 27	N82-11206 *	US-PATENT-4,335,196	c 44	N83-13579 *
US-PATENT-4,245,956	c 05	N81-19087 *	US-PATENT-4,284,682	c 27	N82-16238 *	US-PATENT-4,335,206	c 35	N82-28604 *
US-PATENT-4,246,001	c 27	N81-17261 *	US-PATENT-4,286,209	c 35	N82-11431 *	US-PATENT-4,335,503	c 44	N82-29709 *
US-PATENT-4,246,901	c 52	N81-24711 *	US-PATENT-4,286,460	c 09	N82-11088 *	US-PATENT-4,336,117	c 26	N82-29415 *
US-PATENT-4,247,434	c 25	N81-19242 *	US-PATENT-4,286,542	c 37	N82-12441 *	US-PATENT-4,336,276	c 27	N82-29453 *
US-PATENT-4,248,083	c 35	N81-19426 *	US-PATENT-4,287,152	c 35	N82-11432 *	US-PATENT-4,336,616	c 33	N82-29539 *
US-PATENT-4,249,116	c 33	N81-20352 * #	US-PATENT-4,287,518	c 32	N82-11336 *	US-PATENT-4,338,061	c 07	N83-31603 *
US-PATENT-4,249,238	c 07	N81-19115 *	US-PATENT-4,287,578	c 32	N82-18443 *	US-PATENT-4,338,368	c 27	N82-29456 *
US-PATENT-4,249,417	c 52	N81-20703 *	US-PATENT-4,287,606	c 74	N82-19029 *	US-PATENT-4,338,371	c 24	N82-29362 *
US-PATENT-4,249,957	c 44	N81-19558 *	US-PATENT-4,287,838	c 25	N82-11144 *	US-PATENT-4,338,371	c 54	N84-11758 *
US-PATENT-4,250,143	c 54	N81-24724 *	US-PATENT-4,288,585	c 27	N82-18389 *	US-PATENT-4,338,516	c 74	N82-30071 *
US-PATENT-4,252,007	c 33	N81-25299 *	US-PATENT-4,288,982	c 20	N82-18314 *	US-PATENT-4,338,588	c 33	N83-31954 *
US-PATENT-4,252,111	c 52	N81-25661 *	US-PATENT-4,290,612	c 37	N82-16408 *	US-PATENT-4,340,318	c 37	N82-32732 *
US-PATENT-4,252,440	c 39	N81-25400 *	US-PATENT-4,290,779	c 44	N82-16475 *	US-PATENT-4,340,425	c 26	N82-31505 *
US-PATENT-4,252,768	c 37	N81-25371 *	US-PATENT-4,291,294	c 04	N82-16059 *	US-PATENT-4,341,012	c 35	N82-31659 *
US-PATENT-4,253,156	c 34	N81-26402 *	US-PATENT-4,291,887	c 37	N82-12442 *	US-PATENT-4,341,843	c 26	N82-30371 *
US-PATENT-4,253,769	c 25	N81-25159 *	US-PATENT-4,292,375	c 24	N82-24296 *	US-PATENT-4,341,918	c 44	N82-31764 *
US-PATENT-4,254,464	c 62	N81-24779 *	US-PATENT-4,292,634	c 32	N82-12297 *	US-PATENT-4,341,925	c 32	N82-31583 *
US-PATENT-4,255,048	c 36	N81-24422 *	US-PATENT-4,293,522	c 25	N82-12166 *	US-PATENT-4,343,287	c 37	N82-32730 *
US-PATENT-4,255,495	c 26	N81-25188 *	US-PATENT-4,294,261	c 52	N82-11770 *	US-PATENT-4,343,447	c 08	N82-32373 *
US-PATENT-4,255,929	c 37	N81-25370 *	US-PATENT-4,294,264	c 52	N82-22875 *	US-PATENT-4,343,506	c 85	N82-33288 *
US-PATENT-4,256,093	c 52	N81-25660 *	US-PATENT-4,295,111	c 33	N82-11357 *	US-PATENT-4,343,584	c 37	N82-32731 *
US-PATENT-4,258,366	c 32	N81-25278 *	US-PATENT-4,295,140	c 35	N82-15381 *	US-PATENT-4,343,772	c 44	N83-10501 *
US-PATENT-4,259,821	c 31	N81-25258 *	US-PATENT-4,295,786	c 37	N82-19540 *	US-PATENT-4,344,591	c 24	N82-32417 *
US-PATENT-4,259,825	c 31	N81-25259 *	US-PATENT-4,298,833	c 33	N82-18493 *	US-PATENT-4,344,787	c 31	N83-31896 *
US-PATENT-4,260,166	c 37	N81-24442 *	US-PATENT-4,298,926	c 33	N82-18494 *	US-PATENT-4,344,996	c 27	N82-33521 *
US-PATENT-4,260,187	c 37	N81-27519 *	US-PATENT-4,298,987	c 60	N82-16747 *	US-PATENT-4,345,153	c 35	N82-32659 *
US-PATENT-4,261,349	c 52	N81-25662 *	US-PATENT-4,299,492	c 36	N82-16396 *	US-PATENT-4,346,595	c 06	N83-10040 *
US-PATENT-4,261,537	c 08	N81-24106 *	US-PATENT-4,300,106	c 36	N82-13415 *	US-PATENT-4,346,595	c 06	N84-34443 *
US-PATENT-4,262,064	c 44	N81-24521 *	US-PATENT-4,300,159	c 43	N82-13465 *	US-PATENT-4,346,715	c 52	N82-33996 *
US-PATENT-4,262,067	c 27	N81-24257 *	US-PATENT-4,300,656	c 71	N82-16800 *	US-PATENT-4,346,754	c 34	N83-34221 *
US-PATENT-4,262,080	c 27	N81-25209 *	US-PATENT-4,300,723	c 34	N82-13376 *	US-PATENT-4,346,990	c 36	N82-32712 *
US-PATENT-4,262,195	c 44	N81-24520 *	US-PATENT-4,301,740	c 37	N82-21587 *	US-PATENT-4,347,613	c 36	N83-10417 *
US-PATENT-4,262,198	c 74	N83-19597 *	US-PATENT-4,302,223	c 25	N82-21269 *	US-PATENT-4,349,424	c 24	N83-10117 *
US-PATENT-4,262,206	c 74	N81-24900 *	US-PATENT-4,302,734	c 33	N82-16340 *	US-PATENT-4,349,424	c 70	N84-28565 *
US-PATENT-4,262,258	c 33	N81-27396 *	US-PATENT-4,303,961	c 28	N82-18401 *	US-PATENT-4,349,429	c 25	N83-10126 *
US-PATENT-4,262,259	c 33	N81-24338 *	US-PATENT-4,304,219	c 44	N82-18686 *	US-PATENT-4,349,954	c 26	N83-10170 *
US-PATENT-4,263,112	c 28	N81-24280 *	US-PATENT-4,304,320	c 37	N82-18601 *	US-PATENT-4,350,410	c 74	N83-10900 *
US-PATENT-4,264,310	c 54	N81-27806 *	US-PATENT-4,305,205	c 37	N82-26672 *	US-PATENT-4,350,574	c 44	N83-10494 *
US-PATENT-4,264,728	c 51	N81-28698 *	US-PATENT-4,307,024	c 25	N82-24312 *	US-PATENT-4,351,022	c 33	N83-10345 *
US-PATENT-4,264,802	c 35	N81-26431 *	US-PATENT-4,307,510	c 60	N82-24839 *	US-PATENT-4,355,311	c 32	N83-31918 *
US-PATENT-4,264,908	c 33	N81-26358 *	US-PATENT-4,307,575	c 44	N82-26776 *	US-PATENT-4,355,870	c 74	N83-13978 *
US-PATENT-4,264,940	c 33	N81-27397 *	US-PATENT-4,307,856	c 05	N82-26277 *	US-PATENT-4,355,896	c 47	N83-32322 *
US-PATENT-4,264,984	c 60	N81-27814 *	US-PATENT-4,308,309	c 27	N82-24339 *	US-PATENT-4,357,402	c 25	N83-31888 *
US-PATENT-4,265,416	c 14	N81-26161 *	US-PATENT-4,308,868	c 52	N82-29863 *	US-PATENT-4,358,358	c 25	N83-31817 *
US-PATENT-4,266,177	c 33	N81-27395 *	US-PATENT-4,309,039	c 37	N82-24490 *	US-PATENT-4,358,480	c 24	N83-31772 *
US-PATENT-4,266,743	c 08	N81-26152 *	US-PATENT-4,309,146	c 44	N82-24639 *	US-PATENT-4,358,486	c 24	N83-31771 *
US-PATENT-4,266,788	c 37	N81-26447 *	US-PATENT-4,309,372	c 25	N82-21268 *	US-PATENT-4,358,732	c 33	N83-18996 *
US-PATENT-4,267,594	c 33	N81-26359 *	US-PATENT-4,310,049	c 25	N82-23282 *	US-PATENT-4,358,846	c 32	N83-13323 *
US-PATENT-4,267,953	c 24	N81-26179 *	US-PATENT-4,310,132	c 24	N82-26384 *	US-PATENT-4,360,325	c 44	N83-14693 *
US-PATENT-4,267,992	c 37	N81-24443 *	US-PATENT-4,310,574	c 27	N82-28441 *	US-PATENT-4,360,701	c 44	N83-14692 *
US-PATENT-4,269,640	c 37	N82-24491 *	US-PATENT-4,310,906	c 33	N82-26572 *	US-PATENT-4,362,361	c 74	N83-17035 *
US-PATENT-4,269,787	c 27	N81-24256 *	US-PATENT-4,311,055	c 54	N82-26987 *	US-PATENT-4,362,769	c 27	N83-34039 *
US-PATENT-4,270,539	c 52	N81-28740 *	US-PATENT-4,311,057	c 37	N82-24493 *	US-PATENT-4,363,188	c 51	N83-17045 *
US-PATENT-4,270,984	c 44	N81-29524 *	US-PATENT-4,311,378	c 35	N82-26628 *	US-PATENT-4,363,237	c 71	N83-17235 *
US-PATENT-4,271,761	c 15	N82-24272 *	US-PATENT-4,311,615	c 25	N82-26396 *	US-PATENT-4,363,242	c 33	N83-16626 *
US-PATENT-4,272,046	c 08	N82-24205 *	US-PATENT-4,311,870	c 44	N82-26777 *	US-PATENT-4,366,680	c 31	N83-31897 *
US-PATENT-4,272,302	c 33	N81-26360 *	US-PATENT-4,312,292	c 37	N82-24492 *	US-PATENT-4,370,750	c 34	N83-19015 *
US-PATENT-4,272,470	c 23	N81-29160 *	US-PATENT-4,313,077	c 33	N82-26569 *	US-PATENT-4,371,301	c 37	N83-19091 *
US-PATENT-4,272,720	c 47	N82-24779 *	US-PATENT-4,313,103	c 33	N82-26570 *	US-PATENT-4,371,596	c 44	N83-32176 *
US-PATENT-4,273,304	c 05	N81-26114 *	US-PATENT-4,313,291	c 09	N82-29330 *	US-PATENT-4,371,873	c 32	N83-19968 *
US-PATENT-4,273,505	c 54	N81-26718 *	US-PATENT-4,313,726	c 09	N82-24212 *	US-PATENT-4,371,946	c 32	N83-18975 *
US-PATENT-4,273,918	c 27	N82-24338 *	US-PATENT-4,313,745	c 27	N82-28442 *	US-PATENT-4,372,110	c 07	N83-33884 *
US-PATENT-4,274,038	c 37	N81-33483 *	US-PATENT-4,313,777	c 33	N82-26571 *	US-PATENT-4,372,158	c 44	N83-21503 *
US-PATENT-4,274,285	c 35	N81-29407 *	US-PATENT-4,314,984	c 25	N82-28368 *	US-PATENT-4,372,159	c 44	N83-21504 *
US-PATENT-4,274,901	c 24	N81-33235 *	US-PATENT-4,315,194	c 33	N82-26568 *	US-PATENT-4,372,377	c 74	N83-19596 *
US-PATENT-4,275,317	c 33	N82-24418 *	US-PATENT-4,315,197	c 33	N82-24421 *	US-PATENT-4,372,680	c 35	N83-21311 *
US-PATENT-4,275,453	c 33	N82-24417 *	US-PATENT-4,315,266	c 32	N82-27558 *	US-PATENT-4,373,003	c 27	N83-18908 *
US-PATENT-4,276,344	c 27	N81-27272 *	US-PATENT-4,316,035	c 23	N82-28353 *	US-PATENT-4,373,039	c 27	N83-19900 *
US-PATENT-4,276,344	c 27	N85-21347 *	US-PATENT-4,317,102	c 35	N82-24470 *	US-PATENT-4,373,142	c 44	N83-32175 *
US-PATENT-4,276,403	c 27	N81-27271 *	US-PATENT-4,319,133	c 33	N82-28545 *	US-PATENT-4,373,989	c 76	N83-20789 *
US-PATENT-4,276,553	c 32	N81-27341 *	US-PATENT-4,320,290	c 74	N82-24072 *	US-PATENT-4,374,183	c 26	N83-31795 *
US-PATENT-4,276,588	c 33	N81-33404 *	US-PATENT-4,320,397	c 32	N82-23376 *	US-PATENT-4,374,378	c 35	N83-34272 *
US-PATENT-4,277,402	c 23	N82-16174 *	US-PATENT-4,320,911	c 37	N82-24494 *	US-PATENT-4,375,281	c 05	N83-19737 *
US-PATENT-4,277,721	c 33	N82-24415 *	US-PATENT-4,321,099	c 44	N82-28780 *	US-PATENT-4,375,396	c 31	N83-19947 *
US-PATENT-4,278,220	c 07	N82-26293 *	US-PATENT-4,321,572	c 33	N82-24422 *	US-PATENT-4,375,536	c 27	N83-34040 *
US-PATENT-4,278,351	c 74	N81-29963 *	US-PATENT-4,325,001	c 35	N82-24471 *	US-PATENT-4,375,674	c 39	N83-20280 *
US-PATENT-4,278,830	c 44	N81-29525 *	US-PATENT-4,325,707	c 25	N82-29371 *	US-PATENT-4,376,637	c 35	N84-17555 *
US-PATENT-4,278,830	c 44	N82-28780 *	US-PATENT-4,326,381	c 44	N82-24640 *	US-PATENT-4,376,872	c 44	N83-32177 *
US-PATENT-4,278,978	c 32	N81-29308 *	US-PATENT-4,326,685	c 04	N82-23231 *	US-PATENT-4,377,089	c 35	N83-21312 *
US-PATENT-4,279,018	c 33	N81-33405 *	US-PATENT-4,327,150	c 27	N82-24340 *	US-PATENT-4,377,169	c 52	N83-21785 *
US-PATENT-4,279,001	c 33	N82-24416 *	US-PATENT-4,327,437	c 60	N82-29013 *	US-PATENT-4,377,266	c 07	N83-20944 *
US-PATENT-4,279,632	c 31	N81-33319 *	US-PATENT-4,327,581	c 09	N82-23254 *	US-PATENT-4,377,343	c 74	N83-21949 *
US-PATENT-4,279,906	c 52	N81-29764 *	US-PATENT-4,328,464	c 36	N82-28616 *	US-PATENT-4,377,371	c 18	N83-20996 *
US-PATENT-4,280,141	c 33	N81-33403 *	US-PATENT-4,329,114	c 07	N82-32366 *	US-PATENT-4,377,371	c 37	N84-22957 *

US-PATENT-4,377,949	c 45	N83-25217 *	US-PATENT-4,408,658	c 27	N83-36220 *	US-PATENT-4,449,370	c 37	N84-33808 *
US-PATENT-4,378,209	c 35	N83-24828 *	US-PATENT-4,410,189	c 37	N84-11497 *	US-PATENT-4,449,400	c 47	N84-28292 *
US-PATENT-4,378,813	c 52	N83-25346 *	US-PATENT-4,410,682	c 24	N84-11213 *	US-PATENT-4,449,514	c 44	N84-28204 *
US-PATENT-4,379,970	c 33	N83-24763 *	US-PATENT-4,411,380	c 24	N84-11214 *	US-PATENT-4,449,894	c 37	N84-28081 *
US-PATENT-4,380,046	c 60	N83-25378 *	US-PATENT-4,411,597	c 07	N84-22560 *	US-PATENT-4,450,288	c 27	N84-27884 *
US-PATENT-4,381,174	c 37	N83-26078 *	US-PATENT-4,411,660	c 54	N84-11758 *	US-PATENT-4,450,447	c 32	N84-27951 *
US-PATENT-4,381,333	c 44	N83-34448 *	US-PATENT-4,412,664	c 02	N84-11136 *	US-PATENT-4,451,017	c 18	N84-27787 *
US-PATENT-4,381,375	c 37	N83-34323 *	US-PATENT-4,413,522	c 35	N84-12445 *	US-PATENT-4,451,496	c 26	N84-27855 *
US-PATENT-4,381,583	c 31	N83-31895 *	US-PATENT-4,413,784	c 34	N84-12406 *	US-PATENT-4,452,088	c 24	N84-27829 *
US-PATENT-4,381,881	c 74	N83-29032 *	US-PATENT-4,414,080	c 25	N84-12262 *	US-PATENT-4,452,412	c 16	N84-27784 *
US-PATENT-4,382,116	c 44	N83-27344 *	US-PATENT-4,414,509	c 35	N84-12444 *	US-PATENT-4,453,163	c 06	N84-27733 *
US-PATENT-4,382,224	c 33	N83-27126 *	US-PATENT-4,414,816	c 07	N84-24577 *	US-PATENT-4,454,611	c 54	N84-28484 *
US-PATENT-4,382,239	c 32	N83-27085 *	US-PATENT-4,415,133	c 05	N84-12154 *	US-PATENT-4,454,649	c 44	N84-28205 *
US-PATENT-4,383,171	c 35	N83-27184 *	US-PATENT-4,415,311	c 37	N84-12493 *	US-PATENT-4,454,753	c 09	N84-27749 *
US-PATENT-4,383,533	c 52	N83-27578 *	US-PATENT-4,415,450	c 45	N84-12654 *	US-PATENT-4,455,418	c 27	N84-27885 *
US-PATENT-4,383,785	c 31	N83-27058 *	US-PATENT-4,416,111	c 07	N84-33410 *	US-PATENT-4,455,518	c 25	N85-28982 *
US-PATENT-4,384,578	c 52	N83-27577 *	US-PATENT-4,416,266	c 52	N84-28388 *	US-PATENT-4,455,532	c 72	N84-28575 *
US-PATENT-4,384,823	c 34	N83-27144 *	US-PATENT-4,417,175	c 70	N84-28565 *	US-PATENT-4,455,680	c 32	N84-27952 *
US-PATENT-4,385,043	c 24	N83-25789 *	US-PATENT-4,417,190	c 33	N84-14424 *	US-PATENT-4,456,208	c 27	N84-27886 *
US-PATENT-4,385,113	c 51	N83-27569 *	US-PATENT-4,417,215	c 33	N84-14421 *	US-PATENT-4,456,708	c 51	N84-28361 *
US-PATENT-4,385,949	c 31	N83-34073 *	US-PATENT-4,418,130	c 33	N84-14422 *	US-PATENT-4,458,418	c 37	N84-28085 *
US-PATENT-4,386,157	c 51	N83-28849 *	US-PATENT-4,418,480	c 04	N84-14132 *	US-PATENT-4,458,554	c 37	N84-28082 *
US-PATENT-4,386,750	c 18	N83-28064 *	US-PATENT-4,418,722	c 44	N84-14583 *	US-PATENT-4,459,083	c 02	N84-28732 *
US-PATENT-4,387,513	c 06	N83-33882 *	US-PATENT-4,420,035	c 34	N84-14461 *	US-PATENT-4,459,470	c 27	N84-33589 *
US-PATENT-4,387,935	c 37	N83-32067 *	US-PATENT-4,420,352	c 27	N84-22748 *	US-PATENT-4,459,528	c 33	N84-27975 *
US-PATENT-4,388,171	c 23	N84-16255 *	US-PATENT-4,420,518	c 27	N84-14323 *	US-PATENT-4,459,562	c 33	N84-27974 *
US-PATENT-4,388,346	c 33	N84-16456 *	US-PATENT-4,420,836	c 36	N84-14509 *	US-PATENT-4,460,871	c 76	N84-35112 *
US-PATENT-4,388,502	c 05	N83-27975 *	US-PATENT-4,420,977	c 71	N84-23233 *	US-PATENT-4,463,357	c 46	N85-21846 *
US-PATENT-4,388,542	c 44	N83-28573 *	US-PATENT-4,421,109	c 54	N84-16803 *	US-PATENT-4,463,465	c 03	N84-33394 *
US-PATENT-4,388,585	c 33	N83-28319 *	US-PATENT-4,421,371	c 33	N84-14423 *	US-PATENT-4,463,606	c 71	N85-22105 *
US-PATENT-4,388,585	c 33	N84-33660 *	US-PATENT-4,421,700	c 24	N84-16262 *	US-PATENT-4,464,710	c 33	N84-33663 *
US-PATENT-4,388,965	c 34	N83-28356 *	US-PATENT-4,421,820	c 27	N84-14322 *	US-PATENT-4,466,242	c 20	N85-21256 *
US-PATENT-4,389,504	c 27	N83-28240 *	US-PATENT-4,422,012	c 33	N84-16452 *	US-PATENT-4,466,667	c 35	N84-33768 *
US-PATENT-4,389,504	c 27	N85-21349 *	US-PATENT-4,422,609	c 37	N84-16560 *	US-PATENT-4,469,552	c 76	N84-35113 *
US-PATENT-4,389,849	c 44	N84-28574 *	US-PATENT-4,423,605	c 34	N84-22903 *	US-PATENT-4,469,942	c 35	N84-33767 *
US-PATENT-4,389,904	c 35	N83-29650 *	US-PATENT-4,424,592	c 36	N84-16542 *	US-PATENT-4,469,998	c 33	N84-33661 *
US-PATENT-4,391,129	c 34	N83-31993 *	US-PATENT-4,425,376	c 71	N84-16940 *	US-PATENT-4,470,293	c 37	N84-33807 *
US-PATENT-4,391,423	c 18	N83-29303 *	US-PATENT-4,425,543	c 33	N84-16454 *	US-PATENT-4,470,403	c 44	N84-34792 *
US-PATENT-4,391,514	c 36	N83-34304 *	US-PATENT-4,425,785	c 15	N84-16231 *	US-PATENT-4,471,357	c 32	N84-34651 *
US-PATENT-4,391,518	c 36	N83-29680 *	US-PATENT-4,425,808	c 35	N84-28015 *	US-PATENT-4,472,473	c 18	N84-33450 *
US-PATENT-4,391,609	c 25	N83-31743 *	US-PATENT-4,425,808	c 35	N85-21598 *	US-PATENT-4,472,716	c 35	N84-33769 *
US-PATENT-4,392,356	c 34	N83-29625 *	US-PATENT-4,425,854	c 25	N84-16276 *	US-PATENT-4,472,728	c 35	N84-33765 *
US-PATENT-4,392,749	c 35	N83-29651 *	US-PATENT-4,426,614	c 33	N84-16455 *	US-PATENT-4,473,259	c 37	N85-20337 *
US-PATENT-4,392,874	c 35	N83-29652 *	US-PATENT-4,426,678	c 33	N84-16453 *	US-PATENT-4,473,674	c 24	N84-34571 *
US-PATENT-4,392,920	c 27	N83-29388 *	US-PATENT-4,426,874	c 35	N84-28019 *	US-PATENT-4,473,792	c 33	N84-33660 *
US-PATENT-4,393,039	c 25	N83-29324 *	US-PATENT-4,428,122	c 35	N84-16523 *	US-PATENT-4,474,062	c 06	N84-34443 *
US-PATENT-4,393,706	c 71	N83-32516 *	US-PATENT-4,428,226	c 07	N84-22559 *	US-PATENT-4,474,180	c 52	N84-34913 *
US-PATENT-4,393,708	c 71	N83-32515 *	US-PATENT-4,428,675	c 35	N84-22929 *	US-PATENT-4,474,471	c 35	N84-34705 *
US-PATENT-4,393,716	c 39	N83-32081 *	US-PATENT-4,428,703	c 37	N84-16561 *	US-PATENT-4,474,975	c 25	N85-21280 *
US-PATENT-4,393,777	c 37	N84-12491 *	US-PATENT-4,429,537	c 37	N84-22958 *	US-PATENT-4,475,063	c 33	N85-21491 *
US-PATENT-4,394,610	c 33	N83-31953 *	US-PATENT-4,430,360	c 37	N84-22957 *	US-PATENT-4,475,385	c 09	N84-34448 *
US-PATENT-4,394,726	c 60	N83-32342 *	US-PATENT-4,430,673	c 74	N84-23247 *	US-PATENT-4,475,527	c 37	N85-21650 *
US-PATENT-4,394,819	c 35	N83-32026 *	US-PATENT-4,431,306	c 35	N84-22931 *	US-PATENT-4,475,821	c 71	N85-22104 *
US-PATENT-4,395,123	c 74	N83-32577 *	US-PATENT-4,431,333	c 18	N84-22605 *	US-PATENT-4,478,879	c 44	N85-20530 *
US-PATENT-4,395,503	c 27	N83-34043 *	US-PATENT-4,431,761	c 27	N84-22747 *	US-PATENT-4,479,053	c 74	N85-22139 *
US-PATENT-4,395,511	c 27	N84-14324 *	US-PATENT-4,431,792	c 27	N84-22746 *	US-PATENT-4,479,386	c 27	N85-20126 *
US-PATENT-4,395,540	c 27	N84-22746 *	US-PATENT-4,432,853	c 52	N84-23095 *	US-PATENT-4,479,560	c 35	N85-20294 *
US-PATENT-4,395,540	c 27	N85-20123 *	US-PATENT-4,433,115	c 27	N84-22745 *	US-PATENT-4,481,570	c 60	N85-21992 *
US-PATENT-4,395,557	c 27	N83-31854 *	US-PATENT-4,433,276	c 33	N84-22885 *	US-PATENT-4,482,778	c 44	N85-21768 *
US-PATENT-4,395,557	c 27	N84-22745 *	US-PATENT-4,433,439	c 54	N84-23113 *	US-PATENT-4,482,779	c 33	N85-21492 *
US-PATENT-4,395,557	c 27	N85-21347 *	US-PATENT-4,433,544	c 44	N84-23018 *	US-PATENT-4,483,512	c 37	N85-20338 *
US-PATENT-4,395,656	c 33	N83-31952 *	US-PATENT-4,433,672	c 44	N84-28203 *	US-PATENT-4,483,639	c 37	N85-21649 *
US-PATENT-4,396,918	c 04	N84-27713 *	US-PATENT-4,434,106	c 27	N84-22744 *	US-PATENT-4,483,817	c 25	N85-21279 *
US-PATENT-4,397,716	c 44	N83-34449 *	US-PATENT-4,434,189	c 36	N84-22944 *	US-PATENT-4,485,151	c 24	N85-21266 *
US-PATENT-4,398,021	c 27	N83-34041 *	US-PATENT-4,434,490	c 36	N84-22943 *	US-PATENT-4,485,151	c 24	N85-35233 *
US-PATENT-4,398,021	c 27	N85-20124 *	US-PATENT-4,434,659	c 35	N84-22928 *	US-PATENT-4,485,670	c 34	N85-21568 *
US-PATENT-4,398,129	c 33	N83-34189 *	US-PATENT-4,435,642	c 35	N84-28016 *	US-PATENT-4,485,671	c 35	N85-20295 *
US-PATENT-4,398,412	c 35	N84-28018 *	US-PATENT-4,435,781	c 60	N84-28491 *	US-PATENT-4,485,992	c 08	N85-19985 *
US-PATENT-4,398,667	c 71	N84-14873 *	US-PATENT-4,437,069	c 33	N84-22887 *	US-PATENT-4,488,155	c 33	N85-21493 *
US-PATENT-4,398,925	c 71	N83-35781 *	US-PATENT-4,437,923	c 35	N84-22930 *	US-PATENT-4,488,335	c 37	N85-20125 *
US-PATENT-4,399,415	c 36	N83-35350 *	US-PATENT-4,437,961	c 33	N84-22884 *	US-PATENT-4,488,663	c 35	N85-21595 *
US-PATENT-4,399,515	c 35	N84-14491 *	US-PATENT-4,437,962	c 24	N84-22695 *	US-PATENT-4,489,027	c 27	N85-20124 *
US-PATENT-4,400,191	c 31	N83-35176 *	US-PATENT-4,437,962	c 24	N85-21267 *	US-PATENT-4,489,239	c 36	N85-21631 *
US-PATENT-4,400,642	c 76	N83-34796 *	US-PATENT-4,439,301	c 44	N84-23019 *	US-PATENT-4,489,243	c 44	N85-21769 *
US-PATENT-4,400,657	c 33	N83-34190 *	US-PATENT-4,439,465	c 26	N84-22734 *	US-PATENT-4,489,264	c 33	N85-22877 *
US-PATENT-4,401,505	c 76	N83-35888 *	US-PATENT-4,439,718	c 33	N84-22886 *	US-PATENT-4,490,117	c 09	N85-19990 *
US-PATENT-4,401,934	c 33	N83-35227 *	US-PATENT-4,439,766	c 32	N84-22820 *	US-PATENT-4,490,229	c 31	N85-20153 *
US-PATENT-4,401,953	c 33	N83-34191 *	US-PATENT-4,439,968	c 16	N84-22601 *	US-PATENT-4,491,427	c 37	N85-21651 *
US-PATENT-4,402,221	c 71	N83-36846 *	US-PATENT-4,442,716	c 35	N84-22934 *	US-PATENT-4,493,021	c 32	N85-21428 *
US-PATENT-4,402,358	c 34	N83-35307 *	US-PATENT-4,443,321	c 25	N84-22709 *	US-PATENT-4,493,211	c 09	N85-21178 *
US-PATENT-4,402,447	c 35	N83-35338 *	US-PATENT-4,443,701	c 74	N84-28590 *	US-PATENT-4,493,553	c 36	N85-21639 *
US-PATENT-4,402,992	c 31	N83-35177 *	US-PATENT-4,443,724	c 35	N84-28017 *	US-PATENT-4,495,044	c 24	N85-21267 *
US-PATENT-4,404,469	c 74	N84-11920 *	US-PATENT-4,444,368	c 05	N84-22551 *	US-PATENT-4,495,339	c 25	N85-30039 *
US-PATENT-4,404,793	c 07	N83-36029 *	US-PATENT-4,444,464	c 74	N84-23248 *	US-PATENT-4,495,520	c 32	N85-21427 *
US-PATENT-4,405,184	c 37	N84-12492 *	US-PATENT-4,444,972	c 27	N84-22750 *	US-PATENT-4,496,122	c 05	N85-21147 *
US-PATENT-4,405,197	c 74	N84-11921 *	US-PATENT-4,444,979	c 27	N84-22749 *	US-PATENT-4,496,701	c 27	N85-21347 *
US-PATENT-4,406,256	c 37	N83-36483 *	US-PATENT-4,445,118	c 04	N84-22546 *	US-PATENT-4,497,540	c 74	N85-23396 *
US-PATENT-4,406,797	c 25	N83-36118 *	US-PATENT-4,445,378	c 35	N84-22933 *	US-PATENT-4,497,935	c 27	N85-21349 *
US-PATENT-4,406,989	c 33	N83-36356 *	US-PATENT-4,446,199	c 26	N84-33555 *	US-PATENT-4,497,939	c 27	N85-21351 *
US-PATENT-4,407,001	c 33	N83-36355 *	US-PATENT-4,446,396	c 35	N84-22932 *	US-PATENT-4,497,940	c 27	N85-21352 *
US-PATENT-4,407,165	c 37	N83-36482 *	US-PATENT-4,446,459	c 60	N84-28492 *	US-PATENT-4,498,241	c 27	N85-21350 *
US-PATENT-4,407,468	c 01	N83-35992 *	US-PATENT-4,446,556	c 36	N84-28065 *	US-PATENT-4,498,298	c 35	N85-21598 *
US-PATENT-4,407,563	c 74	N83-36898 *	US-PATENT-4,446,757	c 37	N84-28084 *	US-PATENT-4,498,333	c 35	N85-21597 *
US-PATENT-4,407,589	c 33	N83-36357 *	US-PATENT-4,447,251	c 71	N84-28568 *	US-PATENT-4,499,260	c 27	N85-21348 *
US-PATENT-4,407,686	c 35	N84-12443 *	US-PATENT-4,447,943	c 52	N84-28389 *	US-PATENT-4,499,424	c 35	N85-21596 *
US-PATENT-4,408,597	c 52	N84-11744 *	US-PATENT-4,448,408	c 37	N84-28083 *	US-PATENT-4,499,470	c 43	N85-21723 *

US-PATENT-4,500,265	c 31	N85-21404 *	US-PATENT-4,548,083	c 39	N86-20841 *	US-PATENT-4,616,793	c 05	N87-14314 *
US-PATENT-4,500,492	c 37	N85-21652 *	US-PATENT-4,549,435	c 35	N86-20752 *	US-PATENT-4,618,215	c 09	N87-14355 *
US-PATENT-4,503,436	c 32	N85-29118 *	US-PATENT-4,550,129	c 24	N86-19380 *	US-PATENT-4,618,380	c 35	N87-14671 *
US-PATENT-4,505,998	c 33	N85-29144 *	US-PATENT-4,550,177	c 23	N86-19376 *	US-PATENT-4,618,652	c 27	N87-15304 *
US-PATENT-4,506,183	c 34	N85-29179 *	US-PATENT-4,550,292	c 33	N86-20668 *	US-PATENT-4,619,142	c 35	N87-14670 *
US-PATENT-4,507,928	c 31	N85-29082 *	US-PATENT-4,550,561	c 07	N86-20389 *	US-PATENT-4,619,423	c 02	N87-16793 *
US-PATENT-4,508,296	c 18	N85-29991 *	US-PATENT-4,551,677	c 35	N86-32698 *	US-PATENT-4,620,898	c 31	N87-21160 *
US-PATENT-4,509,048	c 32	N85-34327 *	US-PATENT-4,551,687	c 33	N86-20670 *	US-PATENT-4,621,492	c 20	N87-14420 *
US-PATENT-4,509,130	c 36	N85-29264 *	US-PATENT-4,551,724	c 43	N86-19711 *	US-PATENT-4,622,182	c 27	N87-14515 *
US-PATENT-4,509,132	c 33	N85-34333 *	US-PATENT-4,552,466	c 37	N86-19606 *	US-PATENT-4,623,255	c 33	N87-14594 *
US-PATENT-4,509,548	c 37	N85-34403 *	US-PATENT-4,552,784	c 26	N86-32550 *	US-PATENT-4,624,142	c 32	N87-14559 *
US-PATENT-4,510,277	c 27	N85-34282 *	US-PATENT-4,552,931	c 27	N86-19456 *	US-PATENT-4,624,561	c 35	N87-14669 *
US-PATENT-4,510,296	c 23	N85-28973 *	US-PATENT-4,553,110	c 33	N86-19515 *	US-PATENT-4,624,888	c 27	N87-14516 *
US-PATENT-4,510,476	c 33	N85-29146 *	US-PATENT-4,553,393	c 37	N86-19604 *	US-PATENT-4,626,046	c 37	N87-17034 *
US-PATENT-4,511,362	c 25	N85-35253 *	US-PATENT-4,553,917	c 26	N86-32551 *	US-PATENT-4,626,593	c 27	N87-16908 *
US-PATENT-4,511,838	c 76	N85-30923 *	US-PATENT-4,554,905	c 18	N86-20469 *	US-PATENT-4,629,147	c 07	N87-16828 *
US-PATENT-4,512,332	c 44	N85-30474 *	US-PATENT-4,556,327	c 35	N86-19580 *	US-PATENT-4,631,352	c 44	N87-17399 *
US-PATENT-4,512,661	c 35	N85-30282 *	US-PATENT-4,556,986	c 74	N86-21348 *	US-PATENT-4,631,538	c 17	N87-16863 *
US-PATENT-4,512,678	c 37	N85-30334 *	US-PATENT-4,557,097	c 31	N86-19479 *	US-PATENT-4,632,548	c 36	N87-17026 *
US-PATENT-4,512,699	c 37	N85-29285 *	US-PATENT-4,557,149	c 35	N86-19581 *	US-PATENT-4,633,060	c 74	N87-17493 *
US-PATENT-4,512,846	c 76	N85-29800 *	US-PATENT-4,557,444	c 05	N86-19310 *	US-PATENT-4,633,060	c 74	N87-25843 *
US-PATENT-4,513,317	c 32	N85-29117 *	US-PATENT-4,558,585	c 71	N86-21276 *	US-PATENT-4,634,191	c 37	N87-17038 *
US-PATENT-4,513,423	c 36	N85-30305 *	US-PATENT-4,558,967	c 37	N86-19605 *	US-PATENT-4,634,759	c 27	N87-16909 *
US-PATENT-4,513,750	c 52	N85-30618 *	US-PATENT-4,560,577	c 27	N86-19458 *	US-PATENT-4,635,663	c 37	N87-17035 *
US-PATENT-4,513,810	c 35	N85-29214 *	US-PATENT-4,560,742	c 27	N86-19457 *	US-PATENT-4,635,773	c 37	N87-17037 *
US-PATENT-4,514,137	c 37	N85-29282 *	US-PATENT-4,561,784	c 25	N86-19413 *	US-PATENT-4,637,181	c 31	N87-16918 *
US-PATENT-4,514,143	c 05	N85-29947 *	US-PATENT-4,562,583	c 74	N86-20124 *	US-PATENT-4,637,447	c 37	N87-17036 *
US-PATENT-4,514,178	c 35	N85-29212 *	US-PATENT-4,564,787	c 33	N86-21742 *	US-PATENT-4,638,083	c 27	N87-16907 *
US-PATENT-4,514,557	c 25	N85-28982 *	US-PATENT-4,565,557	c 31	N86-21718 *	US-PATENT-4,641,499	c 31	N87-21159 *
US-PATENT-4,515,207	c 34	N85-29180 *	US-PATENT-4,565,886	c 27	N86-21675 *	US-PATENT-4,642,523	c 33	N87-21234 *
US-PATENT-4,515,751	c 35	N85-29213 *	US-PATENT-4,566,447	c 54	N86-22112 *	US-PATENT-4,644,234	c 33	N87-21233 *
US-PATENT-4,516,071	c 33	N85-30187 *	US-PATENT-4,567,301	c 23	N86-21582 *	US-PATENT-4,644,306	c 33	N87-22895 *
US-PATENT-4,516,435	c 37	N85-29286 *	US-PATENT-4,567,348	c 37	N86-21850 *	US-PATENT-4,644,794	c 71	N87-21652 *
US-PATENT-4,517,472	c 33	N85-29147 *	US-PATENT-4,568,733	c 24	N86-21590 *	US-PATENT-4,645,358	c 32	N87-21206 *
US-PATENT-4,517,505	c 37	N85-30333 *	US-PATENT-4,572,004	c 35	N86-25752 *	US-PATENT-4,646,860	c 85	N87-21755 *
US-PATENT-4,517,530	c 33	N85-29143 *	US-PATENT-4,572,699	c 37	N87-22976 *	US-PATENT-4,647,144	c 74	N87-21679 *
US-PATENT-4,518,277	c 37	N85-30336 *	US-PATENT-4,578,678	c 04	N86-27270 *	US-PATENT-4,647,615	c 27	N87-22845 *
US-PATENT-4,518,625	c 24	N85-30027 *	US-PATENT-4,578,920	c 37	N86-25789 *	US-PATENT-4,648,133	c 32	N87-21207 *
US-PATENT-4,518,722	c 27	N85-29044 *	US-PATENT-4,579-782	c 24	N86-25416 *	US-PATENT-4,648,267	c 34	N87-21255 *
US-PATENT-4,519,545	c 37	N85-29283 *	US-PATENT-4,579,302	c 18	N86-24729 *	US-PATENT-4,648,569	c 08	N87-20999 *
US-PATENT-4,520,601	c 37	N85-30335 *	US-PATENT-4,579,475	c 37	N86-27630 *	US-PATENT-4,649,189	c 27	N87-21112 *
US-PATENT-4,520,656	c 71	N85-29693 *	US-PATENT-4,580-791	c 37	N86-25790 *	US-PATENT-4,649,273	c 72	N87-21661 *
US-PATENT-4,521,077	c 74	N85-29750 *	US-PATENT-4,582,277	c 16	N86-26352 *	US-PATENT-4,649,278	c 72	N87-21660 *
US-PATENT-4,521,659	c 31	N85-29083 *	US-PATENT-4,582,289	c 37	N87-21333 *	US-PATENT-4,649,287	c 44	N87-21410 *
US-PATENT-4,521,688	c 35	N85-30281 *	US-PATENT-4,582,590	c 25	N86-25428 *	US-PATENT-4,649,541	c 60	N87-21591 *
US-PATENT-4,521,702	c 33	N85-29145 *	US-PATENT-4,583,587	c 34	N86-27593 *	US-PATENT-4,649,750	c 71	N87-21653 *
US-PATENT-4,521,854	c 33	N85-29142 *	US-PATENT-4,583,860	c 74	N86-26190 *	US-PATENT-4,650,108	c 37	N87-21334 *
US-PATENT-4,522,469	c 76	N85-33826 *	US-PATENT-4,584,249	c 44	N86-25874 *	US-PATENT-4,650,385	c 37	N87-22976 *
US-PATENT-4,522,661	c 76	N85-30922 *	US-PATENT-4,584,510	c 08	N86-27288 *	US-PATENT-4,652,833	c 33	N87-21235 *
US-PATENT-4,522,755	c 27	N86-19455 *	US-PATENT-4,584,887	c 35	N86-26595 *	US-PATENT-4,654,065	c 27	N87-21111 *
US-PATENT-4,522,844	c 26	N85-29005 *	US-PATENT-4,585,191	c 20	N86-26368 *	US-PATENT-4,654,110	c 76	N87-23286 *
US-PATENT-4,523,008	c 27	N85-29043 *	US-PATENT-4,585,344	c 35	N86-25753 *	US-PATENT-4,655,482	c 37	N87-22977 *
US-PATENT-4,523,682	c 71	N85-30765 *	US-PATENT-4,586,140	c 06	N86-27280 *	US-PATENT-4,657,044	c 37	N87-21332 *
US-PATENT-4,523,741	c 37	N85-29284 *	US-PATENT-4,586,394	c 35	N87-21304 *	US-PATENT-4,660,000	c 33	N87-21232 *
US-PATENT-4,523,810	c 74	N85-29749 *	US-PATENT-4,586,487	c 44	N86-27706 *	US-PATENT-4,661,558	c 27	N87-22848 *
US-PATENT-4,524,237	c 44	N85-30475 *	US-PATENT-4,587,312	c 27	N86-27450 *	US-PATENT-4,661,770	c 33	N87-22894 *
US-PATENT-4,526,925	c 27	N86-20560 *	US-PATENT-4,587,324	c 23	N86-32525 *	US-PATENT-4,662,220	c 35	N87-22953 *
US-PATENT-4,526,925	c 27	N87-22845 *	US-PATENT-4,587,526	c 37	N86-25791 *	US-PATENT-4,662,751	c 74	N87-23259 *
US-PATENT-4,527,092	c 37	N85-33489 *	US-PATENT-4,588,778	c 27	N86-27451 *	US-PATENT-4,663-627	c 06	N87-22678 *
US-PATENT-4,527,910	c 37	N85-33490 *	US-PATENT-4,588,986	c 32	N86-27513 *	US-PATENT-4,663,483	c 27	N87-22847 *
US-PATENT-4,528,386	c 23	N85-33187 *	US-PATENT-4,591,772	c 37	N86-27629 *	US-PATENT-4,664,177	c 34	N87-22950 *
US-PATENT-4,528,417	c 44	N85-34441 *	US-PATENT-4,591,838	c 25	N86-27431 *	US-PATENT-4,664,344	c 37	N87-22985 *
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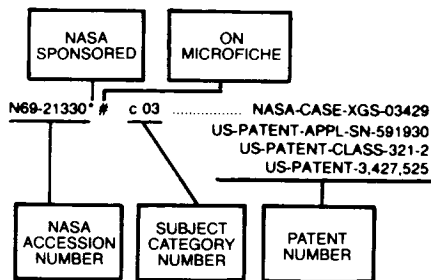
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N69-27485* #	c 14	NASA-CASE-XGS-02401 US-PATENT-APPL-SN-502740 US-PATENT-CLASS-250-203 US-PATENT-3,428,812	N69-39895* #	c 18	NASA-CASE-XNP-06508 US-PATENT-APPL-SN-617776 US-PATENT-CLASS-117-21 US-PATENT-3,446,642	N70-12616* #	c 07	NASA-CASE-MSC-12259-1 US-PATENT-APPL-SN-853763 US-PATENT-CLASS-MFS-14741
N69-27486* #	c 14	NASA-CASE-XAC-11225 US-PATENT-APPL-SN-638707 US-PATENT-CLASS-248-18 US-PATENT-3,430,902	N69-39896* #	c 14	NASA-CASE-XAC-02970 US-PATENT-APPL-SN-47930 US-PATENT-CLASS-250-217 US-PATENT-3,452,872	N70-20737* #	c 09	NASA-CASE-MFS-14741 US-PATENT-APPL-SN-880247 US-PATENT-CLASS-XMS-04890-1
N69-27487* #	c 04	NASA-CASE-XGS-05533 US-PATENT-APPL-SN-568346 US-PATENT-CLASS-195-68 US-PATENT-3,437,560	N69-39897* #	c 09	NASA-CASE-XAC-08981 US-PATENT-APPL-SN-634060 US-PATENT-CLASS-317-16 US-PATENT-3,450,946	N70-22192* #	c 15	NASA-CASE-XMS-04890-1 US-PATENT-APPL-SN-797057 US-PATENT-CLASS-60-258 US-PATENT-3,490,238
N69-27490* #	c 15	NASA-CASE-XLA-02854 US-PATENT-APPL-SN-598118 US-PATENT-CLASS-285-3 US-PATENT-3,427,047	N69-39898* #	c 03	NASA-CASE-XLE-01015 US-PATENT-APPL-SN-502746 US-PATENT-CLASS-310-4 US-PATENT-3,446,997	N70-26819* #	c 15	NASA-CASE-LAR-10590-1 US-PATENT-APPL-SN-21732 US-PATENT-CLASS-XMF-00447
N69-27491* #	c 16	NASA-CASE-XGS-04480 US-PATENT-APPL-SN-591007 US-PATENT-CLASS-250-199 US-PATENT-3,433,960	N69-39899* #	c 09	NASA-CASE-XNP-09776 US-PATENT-APPL-SN-617779 US-PATENT-CLASS-310-4 US-PATENT-3,446,998	N70-33179* #	c 14	NASA-CASE-XMF-00447 US-PATENT-APPL-SN-134479 US-PATENT-CLASS-340-198 US-PATENT-3,041,587
N69-27499* #	c 31	NASA-CASE-XMS-12158-1 US-PATENT-APPL-SN-762936 US-PATENT-CLASS-244-1 US-PATENT-3,439,886	N69-39929* #	c 09	NASA-CASE-XNP-09776 US-PATENT-APPL-SN-617779 US-PATENT-CLASS-310-4 US-PATENT-3,446,998	N70-33180* #	c 15	NASA-CASE-XLA-00137 US-PATENT-APPL-SN-8203 US-PATENT-CLASS-93-1 US-PATENT-3,010,372
N69-27500* #	c 09	NASA-CASE-XNP-09228 US-PATENT-APPL-SN-584070 US-PATENT-CLASS-307-136 US-PATENT-3,430,063	N69-39935* #	c 15	NASA-CASE-XNP-08882 US-PATENT-APPL-SN-640784 US-PATENT-CLASS-220-14 US-PATENT-3,446,387	N70-33181* #	c 21	NASA-CASE-XLA-00120 US-PATENT-APPL-SN-853984 US-PATENT-CLASS-250-83.3 US-PATENT-3,038,077
N69-27502* #	c 15	NASA-CASE-XMF-04132 US-PATENT-APPL-SN-640788 US-PATENT-CLASS-220-55 US-PATENT-3,429,477	N69-39936* #	c 06	NASA-CASE-XNP-04816 US-PATENT-APPL-SN-578926 US-PATENT-CLASS-73-23.1 US-PATENT-3,443,416	N70-33182* #	c 09	NASA-CASE-XAC-00086 US-PATENT-APPL-SN-824755 US-PATENT-CLASS-340-147 US-PATENT-3,059,220
N69-27503* #	c 14	NASA-CASE-XFR-09479 US-PATENT-APPL-SN-653278 US-PATENT-CLASS-73-49.8 US-PATENT-3,433,079	N69-39937* #	c 14	NASA-CASE-XNP-09750 US-PATENT-APPL-SN-632162 US-PATENT-CLASS-250-83 US-PATENT-3,450,112	N70-33226* #	c 15	NASA-CASE-XLE-00020 US-PATENT-APPL-SN-387332 US-PATENT-CLASS-253-39.15 US-PATENT-3,011,760
N69-27504* #	c 15	NASA-CASE-XNP-09452 US-PATENT-APPL-SN-640789 US-PATENT-CLASS-267-1 US-PATENT-3,430,942	N69-39974* #	c 07	NASA-CASE-XGS-05918 US-PATENT-APPL-SN-685497 US-PATENT-CLASS-343-7.5 US-PATENT-3,430,237	N70-33241* #	c 28	NASA-CASE-XLE-00103 US-PATENT-APPL-SN-517100 US-PATENT-CLASS-60-39.74 US-PATENT-2,940,259
N69-27505* #	c 15	NASA-CASE-XLA-09122 US-PATENT-APPL-SN-619903 US-PATENT-CLASS-64-28 US-PATENT-3,430,460	N69-39975* #	c 14	NASA-CASE-XLA-01781 US-PATENT-APPL-SN-441936 US-PATENT-CLASS-73-86 US-PATENT-3,425,268	N70-33242* #	c 31	NASA-CASE-XLA-00165 US-PATENT-APPL-SN-47120 US-PATENT-CLASS-244-117 US-PATENT-3,028,128
N69-27871* #	c 15	NASA-CASE-XMS-04318 US-PATENT-APPL-SN-521996 US-PATENT-CLASS-219-347 US-PATENT-3,431,397	N69-39978* #	c 07	NASA-CASE-XGS-02749 US-PATENT-APPL-SN-502753 US-PATENT-CLASS-179-15 US-PATENT-3,450,842	N70-33254* #	c 14	NASA-CASE-XLA-00062 US-PATENT-APPL-SN-853983 US-PATENT-CLASS-88-16 US-PATENT-3,041,924
N69-31244* #	c 06	NASA-CASE-NPO-10714 US-PATENT-APPL-SN-817569 US-PATENT-CLASS-ERC-10187 US-PATENT-APPL-SN-825253	N69-39979* #	c 18	NASA-CASE-XGS-04119 US-PATENT-APPL-SN-452945 US-PATENT-CLASS-106-74 US-PATENT-3,454,410	N70-33255* #	c 02	NASA-CASE-XLA-00230 US-PATENT-APPL-SN-41455 US-PATENT-CLASS-244-43 US-PATENT-3,053,484
N69-31343* #	c 16	NASA-CASE-ERC-10187 US-PATENT-APPL-SN-825253 US-PATENT-CLASS-ERC-10120 US-PATENT-APPL-SN-827597	N69-39980* #	c 07	NASA-CASE-XGS-05211 US-PATENT-APPL-SN-590145 US-PATENT-CLASS-250-209 US-PATENT-3,444,380	N70-33264* #	c 15	NASA-CASE-XLE-00092 US-PATENT-APPL-SN-835146 US-PATENT-CLASS-253-39.15 US-PATENT-3,057,597
N69-39733* #	c 06	NASA-CASE-XMF-03873 US-PATENT-APPL-SN-543774 US-PATENT-CLASS-73-24 US-PATENT-3,429,177	N69-39981* #	c 01	NASA-CASE-XLA-06095 US-PATENT-APPL-SN-683612 US-PATENT-CLASS-244-138 US-PATENT-3,443,779	N70-33265* #	c 28	NASA-CASE-XLE-00817 US-PATENT-APPL-SN-264735 US-PATENT-CLASS-60-35.3 US-PATENT-3,173,246
N69-39734* #	c 09	NASA-CASE-XMF-04238 US-PATENT-APPL-SN-562443	N69-39982* #	c 14	NASA-CASE-XGS-01725 US-PATENT-APPL-SN-483891	N70-33266* #	c 02	NASA-CASE-XLA-00221 US-PATENT-APPL-SN-51473 US-PATENT-CLASS-244-46 US-PATENT-3,064,928
						N70-33267* #	c 25	NASA-CASE-XLA-00675 US-PATENT-APPL-SN-178213 US-PATENT-CLASS-315-111 US-PATENT-3,171,060
						N70-33278* #	c 11	NASA-CASE-XLE-00168 US-PATENT-APPL-SN-842170 US-PATENT-CLASS-73-116 US-PATENT-3,063,291

N70-33279*	c 21	NASA-CASE-XFR-00181 US-PATENT-APPL-SN-28175 US-PATENT-CLASS-244-83 US-PATENT-3,028,126	N70-33386*	c 14	NASA-CASE-XLA-00113 US-PATENT-APPL-SN-2792 US-PATENT-CLASS-73-147 US-PATENT-3,001,395	N70-34559* #	c 09	NASA-CASE-LAR-10218-1 US-PATENT-APPL-SN-47441
N70-33283*	c 17	NASA-CASE-XLE-00151 US-PATENT-APPL-SN-848481 US-PATENT-CLASS-75-171 US-PATENT-2,971,837	N70-34134*	c 03	NASA-CASE-XLE-00212 US-PATENT-APPL-SN-151598 US-PATENT-CLASS-310-4 US-PATENT-3,202,844	N70-34596*	c 09	NASA-CASE-XMF-00324 US-PATENT-APPL-SN-109789 US-PATENT-CLASS-339-176 US-PATENT-3,189,864
N70-33284*	c 28	NASA-CASE-XLE-00078 US-PATENT-APPL-SN-18776 US-PATENT-CLASS-60-35.6 US-PATENT-3,049,876	N70-34135*	c 31	NASA-CASE-XLA-00686 US-PATENT-APPL-SN-195347 US-PATENT-CLASS-343-833 US-PATENT-3,202,998	N70-34646* #	c 03	NASA-CASE-NPO-11138 US-PATENT-APPL-SN-9251 US-PATENT-CLASS-313-156 US-PATENT-3,201,635
N70-33285*	c 05	NASA-CASE-XLA-00118 US-PATENT-APPL-SN-840983 US-PATENT-CLASS-5-345 US-PATENT-3,038,175	N70-34156*	c 14	NASA-CASE-XLE-00266 US-PATENT-APPL-SN-202024 US-PATENT-CLASS-73-15 US-PATENT-3,204,447	N70-34661*	c 25	NASA-CASE-XLA-00147 US-PATENT-APPL-SN-178215 US-PATENT-CLASS-313-156 US-PATENT-3,201,635
N70-33286*	c 02	NASA-CASE-XLA-00142 US-PATENT-APPL-SN-26375 US-PATENT-CLASS-244-46 US-PATENT-3,028,122	N70-34157*	c 03	NASA-CASE-XMF-00517 US-PATENT-APPL-SN-216711 US-PATENT-CLASS-244-1 US-PATENT-3,204,889	N70-34664*	c 15	NASA-CASE-XMF-00515 US-PATENT-APPL-SN-278790 US-PATENT-CLASS-308-9 US-PATENT-3,199,931
N70-33287*	c 11	NASA-CASE-XLA-00112 US-PATENT-APPL-SN-843022 US-PATENT-CLASS-73-147 US-PATENT-3,005,339	N70-34158*	c 14	NASA-CASE-XGS-00359 US-PATENT-APPL-SN-94952 US-PATENT-CLASS-250-203 US-PATENT-3,205,361	N70-34667*	c 03	NASA-CASE-XLA-00326 US-PATENT-APPL-SN-318443 US-PATENT-CLASS-89-1 US-PATENT-3,200,706
N70-33288*	c 17	NASA-CASE-XLE-02428 US-PATENT-APPL-SN-339821 US-PATENT-CLASS-29-198 US-PATENT-3,170,773	N70-34159*	c 31	NASA-CASE-XMF-03856 US-PATENT-APPL-SN-416941 US-PATENT-CLASS-248-188.9 US-PATENT-3,208,707	N70-34675* #	c 08	NASA-CASE-XNP-04162-1 US-PATENT-APPL-SN-872664
N70-33305*	c 12	NASA-CASE-XLA-00229 US-PATENT-APPL-SN-18780 US-PATENT-CLASS-114-66.5 US-PATENT-3,016,863	N70-34160*	c 02	NASA-CASE-XLA-01804 US-PATENT-APPL-SN-353637 US-PATENT-CLASS-244-50 US-PATENT-3,208,694	N70-34697* #	c 14	NASA-CASE-NPO-11106 US-PATENT-APPL-SN-15020
N70-33311*	c 15	NASA-CASE-XLE-00046 US-PATENT-APPL-SN-686796 US-PATENT-CLASS-29-488 US-PATENT-3,008,229	N70-34161*	c 14	NASA-CASE-XLA-00203 US-PATENT-APPL-SN-227682 US-PATENT-CLASS-73-105 US-PATENT-3,208,272	N70-34699* #	c 15	NASA-CASE-NPO-10682 US-PATENT-APPL-SN-15023
N70-33312*	c 09	NASA-CASE-XLA-00141 US-PATENT-APPL-SN-19971 US-PATENT-CLASS-219-34 US-PATENT-3,005,081	N70-34162*	c 28	NASA-CASE-XMF-01544 US-PATENT-APPL-SN-394638 US-PATENT-CLASS-60-35.55 US-PATENT-3,208,215	N70-34705*	c 14	NASA-CASE-XMF-00456 US-PATENT-APPL-SN-298800 US-PATENT-CLASS-73-88.5 US-PATENT-3,212,325
N70-33322*	c 14	NASA-CASE-XLA-00135 US-PATENT-APPL-SN-861152 US-PATENT-CLASS-244-14 US-PATENT-3,004,735	N70-34175*	c 28	NASA-CASE-XLE-01783 US-PATENT-APPL-SN-313132 US-PATENT-CLASS-60-35.5 US-PATENT-3,210,927	N70-34743*	c 08	NASA-CASE-XGS-00174 US-PATENT-APPL-SN-120803 US-PATENT-CLASS-307-88 US-PATENT-3,198,955
N70-33323*	c 15	NASA-CASE-XMF-00341 US-PATENT-APPL-SN-77256 US-PATENT-CLASS-62-45 US-PATENT-3,012,407	N70-34176*	c 31	NASA-CASE-XMF-00389 US-PATENT-APPL-SN-151114 US-PATENT-CLASS-244-1 US-PATENT-3,202,381	N70-34778*	c 08	NASA-CASE-XLA-00471 US-PATENT-APPL-SN-197553 US-PATENT-CLASS-235-154 US-PATENT-3,194,951
N70-33329*	c 11	NASA-CASE-XLA-00119 US-PATENT-APPL-SN-842171 US-PATENT-CLASS-240-1.2 US-PATENT-2,984,735	N70-34178*	c 02	NASA-CASE-XLA-00166 US-PATENT-APPL-SN-84961 US-PATENT-CLASS-244-46 US-PATENT-3,087,692	N70-34783*	c 27	NASA-CASE-XLA-00304 US-PATENT-APPL-SN-54552 US-PATENT-CLASS-18-39 US-PATENT-3,193,883
N70-33330*	c 15	NASA-CASE-XLE-00023 US-PATENT-APPL-SN-512352 US-PATENT-CLASS-78-1 US-PATENT-2,991,671	N70-34247*	c 15	NASA-CASE-XLE-00288 US-PATENT-APPL-SN-118200 US-PATENT-CLASS-62-50 US-PATENT-3,068,658	N70-34786*	c 11	NASA-CASE-XLA-00493 US-PATENT-APPL-SN-202029 US-PATENT-CLASS-73-432 US-PATENT-3,196,690
N70-33331*	c 28	NASA-CASE-XLA-00105 US-PATENT-APPL-SN-719173 US-PATENT-CLASS-60-35.6 US-PATENT-3,001,363	N70-34249*	c 15	NASA-CASE-XMF-00375 US-PATENT-APPL-SN-166969 US-PATENT-CLASS-72-56 US-PATENT-3,188,844	N70-34787*	c 08	NASA-CASE-XGS-00689 US-PATENT-APPL-SN-250451 US-PATENT-CLASS-235-176 US-PATENT-3,196,261
N70-33332*	c 02	NASA-CASE-XLA-00087 US-PATENT-APPL-SN-811509 US-PATENT-CLASS-244-12 US-PATENT-2,991,961	N70-34294*	c 28	NASA-CASE-XLE-00208 US-PATENT-APPL-SN-106135 US-PATENT-CLASS-60-35.54 US-PATENT-3,132,476	N70-34788*	c 28	NASA-CASE-XLE-00388 US-PATENT-APPL-SN-234568 US-PATENT-CLASS-55-306 US-PATENT-3,196,598
N70-33343*	c 03	NASA-CASE-XLA-00115 US-PATENT-APPL-SN-847027 US-PATENT-CLASS-244-1 US-PATENT-3,001,739	N70-34295*	c 21	NASA-CASE-XLA-01989 US-PATENT-APPL-SN-305027 US-PATENT-CLASS-244-1 US-PATENT-3,189,299	N70-34794*	c 14	NASA-CASE-XMF-00479 US-PATENT-APPL-SN-169977 US-PATENT-CLASS-73-71.2 US-PATENT-3,194,060
N70-33344*	c 33	NASA-CASE-XMS-00486 US-PATENT-APPL-SN-300113 US-PATENT-CLASS-244-1 US-PATENT-3,130,940	N70-34296*	c 31	NASA-CASE-XLA-00678 US-PATENT-APPL-SN-197551 US-PATENT-CLASS-244-1 US-PATENT-3,169,725	N70-34799*	c 14	NASA-CASE-XLA-00492 US-PATENT-APPL-SN-284265 US-PATENT-CLASS-73-88.5 US-PATENT-3,199,340
N70-33356*	c 28	NASA-CASE-XLE-00267 US-PATENT-APPL-SN-58147 US-PATENT-CLASS-60-35.5 US-PATENT-3,016,693	N70-34297*	c 21	NASA-CASE-XGS-00466 US-PATENT-APPL-SN-123597 US-PATENT-CLASS-250-83.3 US-PATENT-3,188,472	N70-34812*	c 33	NASA-CASE-XLE-00387 US-PATENT-APPL-SN-203411 US-PATENT-CLASS-219-19 US-PATENT-3,108,171
N70-33372*	c 28	NASA-CASE-XLE-00037 US-PATENT-APPL-SN-639589 US-PATENT-CLASS-253-39.15 US-PATENT-2,974,925	N70-34298*	c 14	NASA-CASE-XMF-00462 US-PATENT-APPL-SN-148001 US-PATENT-CLASS-88-14 US-PATENT-3,185,023	N70-34813*	c 14	NASA-CASE-XAC-00073 US-PATENT-APPL-SN-47122 US-PATENT-CLASS-73-147 US-PATENT-3,100,990
N70-33374*	c 28	NASA-CASE-XLA-00154 US-PATENT-APPL-SN-31242 US-PATENT-CLASS-60-35.6 US-PATENT-3,012,400	N70-34299*	c 09	NASA-CASE-XMF-00421 US-PATENT-APPL-SN-197548 US-PATENT-CLASS-317-140 US-PATENT-3,189,794	N70-34814*	c 15	NASA-CASE-XMF-00392 US-PATENT-APPL-SN-151112 US-PATENT-CLASS-219-137 US-PATENT-3,102,948
N70-33375*	c 28	NASA-CASE-XLE-00207 US-PATENT-APPL-SN-180370 US-PATENT-CLASS-60-35.6 US-PATENT-3,173,251	N70-34502*	c 21	NASA-CASE-XMF-00185 US-PATENT-APPL-SN-97112 US-PATENT-CLASS-244-76 US-PATENT-3,070,330	N70-34815*	c 11	NASA-CASE-XAC-00042 US-PATENT-APPL-SN-734805 US-PATENT-CLASS-73-398 US-PATENT-3,022,672
N70-33376*	c 15	NASA-CASE-XLE-00101 US-PATENT-APPL-SN-551961 US-PATENT-CLASS-251-173 US-PATENT-2,945,667	N70-34539*	c 33	NASA-CASE-XLA-00330 US-PATENT-APPL-SN-264729 US-PATENT-CLASS-219-121 US-PATENT-3,201,560	N70-34817*	c 15	NASA-CASE-XAC-00074 US-PATENT-APPL-SN-47123 US-PATENT-CLASS-137-340 US-PATENT-3,158,172
N70-33382*	c 15	NASA-CASE-XLE-00010 US-PATENT-APPL-SN-554899 US-PATENT-CLASS-266-19 US-PATENT-2,934,331	N70-34540*	c 33	NASA-CASE-XLA-00030 US-PATENT-APPL-SN-252259 US-PATENT-CLASS-219-347 US-PATENT-3,189,726	N70-34818*	c 14	NASA-CASE-XLE-00503 US-PATENT-APPL-SN-261912 US-PATENT-CLASS-73-136 US-PATENT-3,196,675
						N70-34819*	c 09	NASA-CASE-XGS-00381 US-PATENT-APPL-SN-104188 US-PATENT-CLASS-307-88.5 US-PATENT-3,085,165
						N70-34820*	c 14	NASA-CASE-XAC-00030 US-PATENT-APPL-SN-760819

		US-PATENT-CLASS-73-401			US-PATENT-APPL-SN-178721			US-PATENT-3,150,387	
		US-PATENT-3,024,659			US-PATENT-CLASS-310-5		N70-36802*	c 28	NASA-CASE-XMF-00923
N70-34844*	c 11	NASA-CASE-XLE-00252			US-PATENT-3,205,381				US-PATENT-APPL-SN-264736
		US-PATENT-APPL-SN-144803		N70-35409*	c 15	NASA-CASE-XHQ-01208			US-PATENT-CLASS-60-35.5
		US-PATENT-CLASS-73-116				US-PATENT-APPL-SN-42022			US-PATENT-3,159,967
		US-PATENT-3,199,343				US-PATENT-CLASS-121-38	N70-36803*	c 03	NASA-CASE-XNP-00644
N70-34850*	c 15	NASA-CASE-XLA-00754				US-PATENT-3,088,441			US-PATENT-APPL-SN-212496
		US-PATENT-APPL-SN-209479		N70-35422* #	c 28	NASA-CASE-LEW-10814-1			US-PATENT-CLASS-310-11
		US-PATENT-CLASS-244-100				US-PATENT-APPL-SN-38262			US-PATENT-3,158,764
		US-PATENT-3,143,321		N70-35423*	c 08	NASA-CASE-XNP-00432	N70-36804*	c 02	NASA-CASE-XLA-00898
N70-34856*	c 02	NASA-CASE-XAC-00139				US-PATENT-APPL-SN-127234			US-PATENT-APPL-SN-227683
		US-PATENT-APPL-SN-168560				US-PATENT-CLASS-340-347			US-PATENT-CLASS-244-152
		US-PATENT-CLASS-244-51				US-PATENT-3,172,097			US-PATENT-3,170,660
		US-PATENT-3,144,999		N70-35425*	c 09	NASA-CASE-XNP-00683	N70-36805*	c 26	NASA-CASE-XLA-00158
N70-34857*	c 05	NASA-CASE-XMS-00863				US-PATENT-APPL-SN-251451			US-PATENT-APPL-SN-221637
		US-PATENT-APPL-SN-221634				US-PATENT-CLASS-343-781			US-PATENT-CLASS-23-208
		US-PATENT-CLASS-9-11				US-PATENT-3,209,361			US-PATENT-3,174,827
		US-PATENT-3,155,992		N70-35427*	c 21	NASA-CASE-XGS-00809	N70-36806*	c 28	NASA-CASE-XLE-00145
N70-34858*	c 02	NASA-CASE-XLA-00806				US-PATENT-APPL-SN-85585			US-PATENT-APPL-SN-173081
		US-PATENT-APPL-SN-181828				US-PATENT-CLASS-88-1			US-PATENT-CLASS-60-35.6
		US-PATENT-APPL-SN-26375				US-PATENT-3,083,611			US-PATENT-3,174,279
		US-PATENT-CLASS-244-46		N70-35440*	c 09	NASA-CASE-XAC-00435	N70-36807*	c 14	NASA-CASE-XLA-00100
		US-PATENT-3,170,657				US-PATENT-APPL-SN-164428			US-PATENT-APPL-SN-534901
N70-34859*	c 15	NASA-CASE-XLE-00715				US-PATENT-CLASS-330-14			US-PATENT-CLASS-73-178
		US-PATENT-APPL-SN-212174				US-PATENT-3,196,362			US-PATENT-3,168,827
		US-PATENT-CLASS-251-333		N70-35534*	c 27	NASA-CASE-XGS-03556	N70-36824*	c 14	NASA-CASE-XLA-00481
		US-PATENT-3,191,907				US-PATENT-APPL-SN-94259			US-PATENT-APPL-SN-120797
N70-34860*	c 28	NASA-CASE-XLE-00144				US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-73-212
		US-PATENT-APPL-SN-177684				US-PATENT-3,191,379			US-PATENT-3,170,324
		US-PATENT-CLASS-60-35.6		N70-35587* #	c 14	NASA-CASE-FRC-10053	N70-36825*	c 02	NASA-CASE-XLA-01583
		US-PATENT-3,120,101				US-PATENT-APPL-SN-33398			US-PATENT-APPL-SN-327565
N70-34861*	c 15	NASA-CASE-XLE-00810		N70-35666*	c 14	NASA-CASE-XNP-00646			US-PATENT-CLASS-244-103
		US-PATENT-APPL-SN-249540				US-PATENT-APPL-SN-173981			US-PATENT-3,169,001
		US-PATENT-CLASS-188-1				US-PATENT-CLASS-324-33	N70-36845*	c 31	NASA-CASE-XMF-02108
		US-PATENT-3,164,222				US-PATENT-3,171,081			US-PATENT-APPL-SN-372727
N70-34946*	c 06	NASA-CASE-XNP-00733		N70-35679* #	c 15	NASA-CASE-MS-12279-1			US-PATENT-CLASS-244-100
		US-PATENT-APPL-SN-256484				US-PATENT-APPL-SN-24154			US-PATENT-3,181,821
		US-PATENT-CLASS-62-15		N70-36400*	c 18	NASA-CASE-XMS-00259	N70-36846*	c 33	NASA-CASE-XLA-00189
		US-PATENT-3,192,730				US-PATENT-APPL-SN-145007			US-PATENT-APPL-SN-223003
N70-34966*	c 31	NASA-CASE-XFR-00929				US-PATENT-CLASS-117-69			US-PATENT-CLASS-102-49
		US-PATENT-APPL-SN-290868				US-PATENT-3,157,529			US-PATENT-3,180,264
		US-PATENT-CLASS-35-12		N70-36409*	c 15	NASA-CASE-XLA-00482	N70-36847*	c 33	NASA-CASE-XNP-00463
		US-PATENT-3,191,316				US-PATENT-APPL-SN-166970			US-PATENT-APPL-SN-259487
N70-34967*	c 15	NASA-CASE-XNP-00595				US-PATENT-CLASS-29-423			US-PATENT-CLASS-165-96
		US-PATENT-APPL-SN-188594				US-PATENT-3,160,950			US-PATENT-3,177,933
		US-PATENT-CLASS-204-298		N70-36410*	c 31	NASA-CASE-XMF-00641	N70-36901*	c 15	NASA-CASE-XFR-00811
		US-PATENT-3,189,535				US-PATENT-APPL-SN-221945			US-PATENT-APPL-SN-257346
N70-35087*	c 15	NASA-CASE-XGS-00587				US-PATENT-CLASS-244-1			US-PATENT-CLASS-29-234
		US-PATENT-APPL-SN-313135				US-PATENT-3,158,336			US-PATENT-3,166,834
		US-PATENT-CLASS-137-340		N70-36411*	c 15	NASA-CASE-XLE-00164	N70-36907*	c 14	NASA-CASE-XNP-00614
		US-PATENT-3,211,169				US-PATENT-APPL-SN-107870			US-PATENT-APPL-SN-247419
N70-35089*	c 21	NASA-CASE-XNP-00438				US-PATENT-CLASS-60-39.66			US-PATENT-CLASS-33-1
		US-PATENT-APPL-SN-180381				US-PATENT-3,162,012			US-PATENT-3,163,935
		US-PATENT-CLASS-250-203		N70-36412*	c 15	NASA-CASE-XLE-00170	N70-36908*	c 15	NASA-CASE-XNP-00214
		US-PATENT-3,205,362				US-PATENT-APPL-SN-232914			US-PATENT-APPL-SN-180377
N70-35152*	c 05	NASA-CASE-XMS-01240				US-PATENT-CLASS-253-66			US-PATENT-CLASS-137-625.69
		US-PATENT-APPL-SN-331324				US-PATENT-3,164,369			US-PATENT-3,140,728
		US-PATENT-CLASS-297-216		N70-36492*	c 15	NASA-CASE-XLE-00397	N70-36910*	c 28	NASA-CASE-XNP-00610
		US-PATENT-3,165,356				US-PATENT-APPL-SN-195346			US-PATENT-APPL-SN-211464
N70-35219*	c 09	NASA-CASE-XNP-00611				US-PATENT-CLASS-137-614			US-PATENT-CLASS-60-35.6
		US-PATENT-APPL-SN-140443				US-PATENT-3,170,486			US-PATENT-3,170,290
		US-PATENT-CLASS-343-781		N70-36493*	c 05	NASA-CASE-XMS-00864	N70-36911*	c 07	NASA-CASE-XNP-00748
		US-PATENT-3,209,360				US-PATENT-APPL-SN-258932			US-PATENT-APPL-SN-184649
N70-35220*	c 14	NASA-CASE-XNP-00449				US-PATENT-CLASS-9-316			US-PATENT-CLASS-343-17.2
		US-PATENT-APPL-SN-118169				US-PATENT-3,152,344			US-PATENT-3,183,506
		US-PATENT-CLASS-330-49		N70-36494*	c 09	NASA-CASE-XMF-00369	N70-36913*	c 11	NASA-CASE-XMF-00411
		US-PATENT-3,160,825				US-PATENT-APPL-SN-134782			US-PATENT-APPL-SN-158914
N70-35368*	c 14	NASA-CASE-XLE-00335				US-PATENT-CLASS-339-176			US-PATENT-CLASS-73-147
		US-PATENT-APPL-SN-197554				US-PATENT-3,149,897			US-PATENT-3,182,496
		US-PATENT-CLASS-73-15.6		N70-36535*	c 15	NASA-CASE-XLE-00303	N70-36938*	c 21	NASA-CASE-XNP-00294
		US-PATENT-3,176,499				US-PATENT-APPL-SN-182692			US-PATENT-APPL-SN-182696
N70-35381*	c 28	NASA-CASE-XHQ-01897				US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-129579				US-PATENT-3,170,286			US-PATENT-3,178,883
		US-PATENT-CLASS-60-35.6		N70-36536*	c 32	NASA-CASE-XLA-00204	N70-36943*	c 21	NASA-CASE-XLA-00281
		US-PATENT-3,121,309				US-PATENT-APPL-SN-189648			US-PATENT-APPL-SN-84962
N70-35382*	c 09	NASA-CASE-XNP-00540				US-PATENT-CLASS-135-1			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-140509				US-PATENT-3,170,471			US-PATENT-3,180,587
		US-PATENT-CLASS-343-781		N70-36616*	c 17	NASA-CASE-XLE-00283	N70-36946*	c 25	NASA-CASE-XLA-01354
		US-PATENT-3,212,096				US-PATENT-APPL-SN-107866			US-PATENT-APPL-SN-253774
N70-35383*	c 11	NASA-CASE-XMF-00580				US-PATENT-CLASS-75-171			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-343425				US-PATENT-3,167,426			US-PATENT-3,174,278
		US-PATENT-CLASS-248-119		N70-36617*	c 33	NASA-CASE-XLA-01291	N70-36947*	c 15	NASA-CASE-XNP-00416
		US-PATENT-3,194,525				US-PATENT-APPL-SN-277961			US-PATENT-APPL-SN-180395
N70-35394*	c 14	NASA-CASE-XNP-00708				US-PATENT-CLASS-244-1			US-PATENT-CLASS-189-36
		US-PATENT-APPL-SN-281069				US-PATENT-3,176,933			US-PATENT-3,169,613
		US-PATENT-CLASS-35-45		N70-36618*	c 14	NASA-CASE-XLE-00143	N70-37245*	c 28	NASA-CASE-XLE-00376
		US-PATENT-3,196,558				US-PATENT-APPL-SN-104187			US-PATENT-APPL-SN-139007
N70-35395*	c 21	NASA-CASE-XNP-00465				US-PATENT-CLASS-324-61			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-180379				US-PATENT-3,176,222			US-PATENT-3,156,090
		US-PATENT-CLASS-244-1		N70-36654*	c 31	NASA-CASE-XMF-02853	N70-37924*	c 31	NASA-CASE-XGS-00280
		US-PATENT-3,206,141				US-PATENT-APPL-SN-360182			US-PATENT-APPL-SN-187446
N70-35407*	c 15	NASA-CASE-XLE-00815				US-PATENT-CLASS-244-100			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-300712				US-PATENT-3,175,789			US-PATENT-3,090,580
		US-PATENT-CLASS-251-11		N70-36778*	c 03	NASA-CASE-XLA-00838	N70-37925*	c 15	NASA-CASE-XLA-00128
		US-PATENT-3,211,414				US-PATENT-APPL-SN-192016			US-PATENT-APPL-SN-32496
N70-35408*	c 03	NASA-CASE-XGS-01593				US-PATENT-CLASS-9-8			US-PATENT-CLASS-73-384

N70-37938*	c 31	US-PATENT-3,093,000 NASA-CASE-XLA-00149 US-PATENT-APPL-SN-847023 US-PATENT-CLASS-244-1 US-PATENT-3,093,346	N70-38601*	c 15	US-PATENT-3,135,090 NASA-CASE-XLA-00679 US-PATENT-APPL-SN-213836 US-PATENT-CLASS-188-1 US-PATENT-3,128,845	N70-39925*	c 28	US-PATENT-3,229,884 NASA-CASE-XLE-00660 US-PATENT-APPL-SN-231604 US-PATENT-CLASS-313-11.5 US-PATENT-3,229,139
N70-37939*	c 02	NASA-CASE-XLE-00222 US-PATENT-APPL-SN-77252 US-PATENT-CLASS-244-113 US-PATENT-3,098,630	N70-38602*	c 14	NASA-CASE-XLE-00243 US-PATENT-APPL-SN-118203 US-PATENT-CLASS-324-106 US-PATENT-3,202,915	N70-39930*	c 03	NASA-CASE-XLA-00791 US-PATENT-APPL-SN-347960 US-PATENT-CLASS-102-49 US-PATENT-3,229,636
N70-37979*	c 33	NASA-CASE-XLA-00349 US-PATENT-APPL-SN-141220 US-PATENT-CLASS-62-467 US-PATENT-3,090,212	N70-38603*	c 15	NASA-CASE-XNP-00450 US-PATENT-APPL-SN-180394 US-PATENT-CLASS-137-495 US-PATENT-3,105,515	N70-39931*	c 28	NASA-CASE-XNP-01104 US-PATENT-APPL-SN-290867 US-PATENT-CLASS-60-39.48 US-PATENT-3,229,463
N70-37980*	c 28	NASA-CASE-XLE-00342 US-PATENT-APPL-SN-60531 US-PATENT-CLASS-60-35.5 US-PATENT-3,119,232	N70-38604*	c 09	NASA-CASE-XGS-00458 US-PATENT-APPL-SN-139006 US-PATENT-CLASS-307-88 US-PATENT-3,128,389	N70-40003*	c 14	NASA-CASE-XGS-01036 US-PATENT-APPL-SN-227692 US-PATENT-CLASS-88-14 US-PATENT-3,229,568
N70-37981*	c 31	NASA-CASE-XLA-00138 US-PATENT-APPL-SN-8204 US-PATENT-CLASS-343-18 US-PATENT-3,115,630	N70-38620*	c 15	NASA-CASE-XNP-00476 US-PATENT-APPL-SN-182698 US-PATENT-CLASS-308-9 US-PATENT-3,132,903	N70-40015*	c 26	NASA-CASE-XLA-02057 US-PATENT-APPL-SN-320595 US-PATENT-CLASS-23-277 US-PATENT-3,230,053
N70-37986*	c 31	NASA-CASE-XLA-00241 US-PATENT-APPL-SN-61329 US-PATENT-CLASS-244-1 US-PATENT-3,104,079	N70-38645*	c 28	NASA-CASE-XNP-00234 US-PATENT-APPL-SN-180382 US-PATENT-CLASS-60-35.54 US-PATENT-3,139,725	N70-40016*	c 30	NASA-CASE-XGS-00619 US-PATENT-APPL-SN-264728 US-PATENT-CLASS-244-1 US-PATENT-3,229,930
N70-38009*	c 02	NASA-CASE-XLA-00195 US-PATENT-APPL-SN-60536 US-PATENT-CLASS-244-140 US-PATENT-3,079,113	N70-38675*	c 11	NASA-CASE-XNP-00459 US-PATENT-APPL-SN-180384 US-PATENT-CLASS-73-432 US-PATENT-3,187,583	N70-40062*	c 15	NASA-CASE-XMS-01624 US-PATENT-APPL-SN-422867 US-PATENT-CLASS-55-408 US-PATENT-3,224,173
N70-38010*	c 31	NASA-CASE-XLA-00805 US-PATENT-APPL-SN-181829 US-PATENT-CLASS-244-46 US-PATENT-3,120,361	N70-38676*	c 31	NASA-CASE-XLA-00258 US-PATENT-APPL-SN-101029 US-PATENT-CLASS-244-1 US-PATENT-3,144,219	N70-40063*	c 07	NASA-CASE-XMS-00893 US-PATENT-APPL-SN-251449 US-PATENT-CLASS-343-18 US-PATENT-3,224,001
N70-38011*	c 02	NASA-CASE-XLA-00350 US-PATENT-APPL-SN-153266 US-PATENT-CLASS-244-46 US-PATENT-3,104,082	N70-38710*	c 28	NASA-CASE-XMF-00148 US-PATENT-APPL-SN-118202 US-PATENT-CLASS-60-35.6 US-PATENT-3,122,885	N70-40123*	c 09	NASA-CASE-XGS-01881 US-PATENT-APPL-SN-155584 US-PATENT-CLASS-324-43 US-PATENT-3,218,547
N70-38020*	c 15	NASA-CASE-XLE-00345 US-PATENT-APPL-SN-183978 US-PATENT-CLASS-62-55 US-PATENT-3,122,000	N70-38711*	c 28	NASA-CASE-XLE-00057 US-PATENT-APPL-SN-0914 US-PATENT-CLASS-60-35.55 US-PATENT-3,080,711	N70-40124*	c 12	NASA-CASE-XLE-01512 US-PATENT-APPL-SN-315096 US-PATENT-CLASS-149-2 US-PATENT-3,215,572
N70-38181*	c 28	NASA-CASE-XNP-00217 US-PATENT-APPL-SN-180374 US-PATENT-CLASS-102-49 US-PATENT-3,122,098	N70-38712*	c 09	NASA-CASE-XMF-01129 US-PATENT-APPL-SN-273534 US-PATENT-CLASS-318-260 US-PATENT-3,147,422	N70-40125*	c 08	NASA-CASE-XAC-00404 US-PATENT-APPL-SN-209801 US-PATENT-CLASS-340-347 US-PATENT-3,216,007
N70-38182*	c 11	NASA-CASE-XNP-00612 US-PATENT-APPL-SN-228507 US-PATENT-CLASS-220-63 US-PATENT-3,123,248	N70-38713*	c 03	NASA-CASE-XGS-00473 US-PATENT-APPL-SN-139012 US-PATENT-CLASS-200-39 US-PATENT-3,141,932	N70-40156*	c 15	NASA-CASE-XLA-01019 US-PATENT-APPL-SN-282817 US-PATENT-CLASS-248-358 US-PATENT-3,223,374
N70-38196*	c 11	NASA-CASE-XMF-00424 US-PATENT-APPL-SN-159804 US-PATENT-CLASS-73-517 US-PATENT-3,141,340	N70-38995*	c 09	NASA-CASE-XGS-00131 US-PATENT-APPL-SN-14488 US-PATENT-CLASS-331-113 US-PATENT-3,150,329	N70-40157*	c 14	NASA-CASE-XLA-00487 US-PATENT-APPL-SN-236748 US-PATENT-CLASS-73-178 US-PATENT-3,221,549
N70-38197*	c 28	NASA-CASE-XLE-00455 US-PATENT-APPL-SN-203409 US-PATENT-CLASS-75-222 US-PATENT-3,141,769	N70-38996*	c 15	NASA-CASE-XNP-00676 US-PATENT-APPL-SN-290870 US-PATENT-CLASS-222-389 US-PATENT-3,170,605	N70-40180*	c 15	NASA-CASE-XAC-00472 US-PATENT-APPL-SN-236749 US-PATENT-CLASS-73-142 US-PATENT-3,224,263
N70-38198*	c 17	NASA-CASE-XLE-00231 US-PATENT-APPL-SN-64226 US-PATENT-CLASS-22-203 US-PATENT-3,138,837	N70-38997*	c 12	NASA-CASE-XMF-00658 US-PATENT-APPL-SN-216710 US-PATENT-CLASS-137-1 US-PATENT-3,110,318	N70-40201*	c 14	NASA-CASE-XLE-00720 US-PATENT-APPL-SN-302749 US-PATENT-CLASS-73-134 US-PATENT-3,221,547
N70-38199*	c 28	NASA-CASE-XLE-00111 US-PATENT-APPL-SN-835152 US-PATENT-CLASS-60-39.48 US-PATENT-3,136,123	N70-38998*	c 09	NASA-CASE-XNP-00431 US-PATENT-APPL-SN-180380 US-PATENT-CLASS-340-147 US-PATENT-3,100,294	N70-40202*	c 07	NASA-CASE-XMF-00437 US-PATENT-APPL-SN-120795 US-PATENT-CLASS-343-705 US-PATENT-3,077,599
N70-38200*	c 07	NASA-CASE-XLA-00414 US-PATENT-APPL-SN-209478 US-PATENT-CLASS-343-705 US-PATENT-3,132,342	N70-38995*	c 28	NASA-CASE-XLE-00085 US-PATENT-APPL-SN-25175 US-PATENT-CLASS-253-66 US-PATENT-3,070,349	N70-40203*	c 14	NASA-CASE-XLE-00702 US-PATENT-APPL-SN-258931 US-PATENT-CLASS-73-116 US-PATENT-3,201,980
N70-38201*	c 09	NASA-CASE-XNP-00738 US-PATENT-APPL-SN-204015 US-PATENT-CLASS-174-115 US-PATENT-3,106,603	N70-38996*	c 15	NASA-CASE-XMF-00339 US-PATENT-APPL-SN-110591 US-PATENT-CLASS-308-9 US-PATENT-3,070,407	N70-40204*	c 15	NASA-CASE-XMF-00722 US-PATENT-APPL-SN-347626 US-PATENT-CLASS-228-50 US-PATENT-3,219,250
N70-38202*	c 11	NASA-CASE-XNP-00425 US-PATENT-APPL-SN-180396 US-PATENT-CLASS-89-1.7 US-PATENT-3,112,672	N70-38997*	c 18	NASA-CASE-XLE-00353 US-PATENT-APPL-SN-65548 US-PATENT-CLASS-252-58 US-PATENT-3,072,574	N70-40233*	c 14	NASA-CASE-XMS-01546 US-PATENT-APPL-SN-386467 US-PATENT-CLASS-222-45 US-PATENT-3,228,558
N70-38225*	c 15	NASA-CASE-XNP-00840 US-PATENT-APPL-SN-269222 US-PATENT-CLASS-267-1 US-PATENT-3,127,157	N70-38998*	c 14	NASA-CASE-XMF-00480 US-PATENT-APPL-SN-144804 US-PATENT-CLASS-248-346 US-PATENT-3,069,123	N70-40234*	c 09	NASA-CASE-XLE-01716 US-PATENT-APPL-SN-349778 US-PATENT-CLASS-126-270 US-PATENT-3,229,682
N70-38249*	c 28	NASA-CASE-XNP-00249 US-PATENT-APPL-SN-180391 US-PATENT-CLASS-60-35.6 US-PATENT-3,120,738	N70-38999*	c 28	NASA-CASE-XLE-00005 US-PATENT-APPL-SN-718095 US-PATENT-CLASS-60-35.6 US-PATENT-3,067,573	N70-40238*	c 14	NASA-CASE-XMF-00908 US-PATENT-APPL-SN-241085 US-PATENT-CLASS-250-201 US-PATENT-3,229,099
N70-38490*	c 17	NASA-CASE-XLE-00228 US-PATENT-APPL-SN-64224 US-PATENT-CLASS-29-183.5 US-PATENT-3,084,421	N70-39915*	c 09	NASA-CASE-XAC-00060 US-PATENT-APPL-SN-47121 US-PATENT-CLASS-200-19 US-PATENT-3,078,065	N70-40239*	c 14	NASA-CASE-XLA-00183 US-PATENT-APPL-SN-199202 US-PATENT-CLASS-250-203 US-PATENT-3,229,102
N70-38504*	c 28	NASA-CASE-XMS-00583 US-PATENT-APPL-SN-182699 US-PATENT-CLASS-60-35.6 US-PATENT-3,135,089	N70-39922*	c 05	NASA-CASE-XMS-01115 US-PATENT-APPL-SN-277404 US-PATENT-CLASS-128-29 US-PATENT-3,229,689	N70-40240*	c 14	NASA-CASE-XHQ-04106 US-PATENT-APPL-SN-91180 US-PATENT-CLASS-250-105 US-PATENT-3,143,651
N70-38505*	c 28	NASA-CASE-XLE-00323 US-PATENT-APPL-SN-183977 US-PATENT-CLASS-60-35.6	N70-39924*	c 15	NASA-CASE-XMF-00640 US-PATENT-APPL-SN-341467 US-PATENT-CLASS-228-50	N70-40272*	c 09	NASA-CASE-XMF-00701 US-PATENT-APPL-SN-261917 US-PATENT-CLASS-307-88.5

N70-40273*	c 14	US-PATENT-3,218,479	N70-41580*	c 03	US-PATENT-3,295,556	N70-41811*	c 15	US-PATENT-3,287,031
		NASA-CASE-XNP-00637			NASA-CASE-XLA-04622			NASA-CASE-XNP-01152
		US-PATENT-APPL-SN-280776			US-PATENT-APPL-SN-277833			US-PATENT-APPL-SN-369337
		US-PATENT-CLASS-95-58			US-PATENT-CLASS-126-270			US-PATENT-CLASS-137-539
N70-40309*	c 30	US-PATENT-3,217,624	N70-41581*	c 05	US-PATENT-3,295,512	N70-41812*	c 14	US-PATENT-3,302,662
		NASA-CASE-XLA-00210			NASA-CASE-XAC-01404			NASA-CASE-XMS-03792
		US-PATENT-APPL-SN-82658			US-PATENT-APPL-SN-363348			US-PATENT-APPL-SN-516159
		US-PATENT-CLASS-343-18			US-PATENT-CLASS-74-471			US-PATENT-CLASS-200-61.45
N70-40353*	c 30	US-PATENT-3,220,004	N70-41582*	c 28	US-PATENT-3,295,386	N70-41818*	c 28	US-PATENT-3,303,304
		NASA-CASE-XMF-03198			NASA-CASE-XMF-01813			NASA-CASE-XLE-00150
		US-PATENT-APPL-SN-370134			US-PATENT-APPL-SN-375674			US-PATENT-APPL-SN-843032
		US-PATENT-CLASS-89-1.7			US-PATENT-CLASS-181-52			US-PATENT-CLASS-29-157.3
N70-40354*	c 15	US-PATENT-3,224,336	N70-41583*	c 18	US-PATENT-3,270,835	N70-41819*	c 05	US-PATENT-3,035,333
		NASA-CASE-XMF-01045			NASA-CASE-XMF-01030			NASA-CASE-XAC-00405
		US-PATENT-APPL-SN-355130			US-PATENT-APPL-SN-317389			US-PATENT-APPL-SN-158916
		US-PATENT-CLASS-188-1			US-PATENT-CLASS-161-115			US-PATENT-CLASS-128-1
N70-40367*	c 28	US-PATENT-3,228,492	N70-41588*	c 31	US-PATENT-3,296,060	N70-41829*	c 15	US-PATENT-3,302,633
		NASA-CASE-XLE-00177			NASA-CASE-XMF-01973			NASA-CASE-XMF-01371
		US-PATENT-APPL-SN-10812			US-PATENT-APPL-SN-375682			US-PATENT-APPL-SN-353634
		US-PATENT-CLASS-60-35.3			US-PATENT-CLASS-244-1			US-PATENT-CLASS-287-119
N70-40400*	c 14	US-PATENT-3,045,424	N70-41589*	c 02	US-PATENT-3,295,790	N70-41855*	c 31	US-PATENT-3,302,960
		NASA-CASE-XAC-00648			NASA-CASE-XMF-01174			NASA-CASE-XNP-02982
		US-PATENT-APPL-SN-216939			US-PATENT-APPL-SN-410331			US-PATENT-APPL-SN-388966
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-244-100			US-PATENT-CLASS-244-1
N70-41275*	c 28	US-PATENT-3,218,850	N70-41628*	c 25	US-PATENT-3,295,798	N70-41856*	c 21	US-PATENT-3,304,028
		NASA-CASE-XNP-01390			NASA-CASE-XAC-00319			NASA-CASE-XNP-01307
		US-PATENT-APPL-SN-424157			US-PATENT-APPL-SN-77251			US-PATENT-APPL-SN-390250
		US-PATENT-CLASS-60-259			US-PATENT-CLASS-315-111			US-PATENT-CLASS-244-1
N70-41297*	c 05	US-PATENT-3,300,981	N70-41629*	c 15	US-PATENT-3,229,155	N70-41863*	c 02	US-PATENT-3,286,953
		NASA-CASE-XMS-01492			NASA-CASE-XGS-02441			NASA-CASE-XLA-01220
		US-PATENT-APPL-SN-398131			US-PATENT-APPL-SN-411944			US-PATENT-APPL-SN-379417
		US-PATENT-CLASS-55-35			US-PATENT-CLASS-285-331			US-PATENT-CLASS-244-16
N70-41310*	c 15	US-PATENT-3,300,949	N70-41630*	c 02	US-PATENT-3,301,578	N70-41864*	c 03	US-PATENT-3,286,957
		NASA-CASE-XNP-01567			NASA-CASE-XMS-00907			NASA-CASE-XGS-01419
		US-PATENT-APPL-SN-448898			US-PATENT-APPL-SN-428890			US-PATENT-APPL-SN-502729
		US-PATENT-CLASS-248-178			US-PATENT-CLASS-244-138			US-PATENT-CLASS-62-45
N70-41311*	c 28	US-PATENT-3,295,808	N70-41631*	c 31	US-PATENT-3,301,511	N70-41871*	c 31	US-PATENT-3,304,729
		NASA-CASE-XNP-00876			NASA-CASE-XMS-04142			NASA-CASE-XMS-04390
		US-PATENT-APPL-SN-377784			US-PATENT-APPL-SN-422865			US-PATENT-APPL-SN-502729
		US-PATENT-CLASS-60-251			US-PATENT-CLASS-244-1			US-PATENT-CLASS-62-45
N70-41329*	c 05	US-PATENT-3,298,182	N70-41646*	c 15	US-PATENT-3,301,507	N70-41897*	c 27	US-PATENT-3,304,729
		NASA-CASE-XMS-01615			NASA-CASE-XLE-01449			NASA-CASE-XNP-01749
		US-PATENT-APPL-SN-329595			US-PATENT-APPL-SN-330209			US-PATENT-APPL-SN-440033
		US-PATENT-CLASS-128-2.05			US-PATENT-CLASS-137-197			US-PATENT-CLASS-149-109
N70-41330*	c 14	US-PATENT-3,298,362	N70-41647*	c 14	US-PATENT-3,295,545	N70-41922*	c 28	US-PATENT-3,305,415
		NASA-CASE-XLE-00688			NASA-CASE-XGS-00769			NASA-CASE-XNP-02839
		US-PATENT-APPL-SN-334672			US-PATENT-APPL-SN-319893			US-PATENT-APPL-SN-477333
		US-PATENT-CLASS-73-32			US-PATENT-CLASS-242-55.19			US-PATENT-CLASS-60-202
N70-41331*	c 07	US-PATENT-3,298,221	N70-41655*	c 09	US-PATENT-3,295,782	N70-41929*	c 09	US-PATENT-3,304,718
		NASA-CASE-XLA-01400			NASA-CASE-XMF-00906			NASA-CASE-XNP-01951
		US-PATENT-APPL-SN-363653			US-PATENT-APPL-SN-264731			US-PATENT-APPL-SN-413662
		US-PATENT-CLASS-325-65			US-PATENT-CLASS-324-113			US-PATENT-CLASS-335-300
N70-41332*	c 14	US-PATENT-3,296,531	N70-41675*	c 09	US-PATENT-3,287,640	N70-41930*	c 21	US-PATENT-3,305,810
		NASA-CASE-XLA-00495			NASA-CASE-XMS-01315			NASA-CASE-XNP-01501
		US-PATENT-APPL-SN-269215			US-PATENT-APPL-SN-347101			US-PATENT-APPL-SN-432027
		US-PATENT-CLASS-324-70			US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-343-12
N70-41366*	c 14	US-PATENT-3,296,526	N70-41676*	c 14	US-PATENT-3,302,040	N70-41946*	c 14	US-PATENT-3,305,861
		NASA-CASE-XLA-01353			NASA-CASE-XGS-01231			NASA-CASE-XLE-00011
		US-PATENT-APPL-SN-403960			US-PATENT-APPL-SN-346356			US-PATENT-APPL-SN-735911
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-250-71			US-PATENT-CLASS-88-14
N70-41367*	c 32	US-PATENT-3,301,046	N70-41677*	c 11	US-PATENT-3,302,023	N70-41948*	c 31	US-PATENT-2,960,002
		NASA-CASE-XGS-00938			NASA-CASE-XMF-01772			NASA-CASE-XMF-01899
		US-PATENT-APPL-SN-392970			US-PATENT-APPL-SN-370135			US-PATENT-APPL-SN-428882
		US-PATENT-CLASS-214-1			US-PATENT-CLASS-73-116			US-PATENT-CLASS-60-257
N70-41370*	c 32	US-PATENT-3,295,699	N70-41678*	c 07	US-PATENT-3,295,366	N70-41954*	c 03	US-PATENT-3,304,724
		NASA-CASE-XNP-01962			NASA-CASE-XGS-02608			NASA-CASE-XAC-03392
		US-PATENT-APPL-SN-369640			US-PATENT-APPL-SN-456578			US-PATENT-APPL-SN-430776
		US-PATENT-CLASS-92-94			US-PATENT-CLASS-343-18			US-PATENT-CLASS-74-519
N70-41371*	c 15	US-PATENT-3,298,285	N70-41679*	c 15	US-PATENT-3,289,205	N70-41955*	c 14	US-PATENT-3,304,799
		NASA-CASE-XMF-01452			NASA-CASE-XLA-01441			NASA-CASE-XNP-02029
		US-PATENT-APPL-SN-356692			US-PATENT-APPL-SN-516151			US-PATENT-APPL-SN-221276
		US-PATENT-CLASS-29-271			US-PATENT-CLASS-102-49			US-PATENT-CLASS-88-14
N70-41372*	c 07	US-PATENT-3,300,847	N70-41680*	c 07	US-PATENT-3,302,569	N70-41957*	c 14	US-PATENT-3,323,408
		NASA-CASE-XLA-01127			NASA-CASE-XNP-02723			NASA-CASE-XAC-01101
		US-PATENT-APPL-SN-363654			US-PATENT-APPL-SN-371857			US-PATENT-APPL-SN-355129
		US-PATENT-CLASS-325-65			US-PATENT-CLASS-343-14			US-PATENT-CLASS-73-141
N70-41373*	c 31	US-PATENT-3,300,731	N70-41681*	c 14	US-PATENT-3,287,725	N70-41960*	c 15	US-PATENT-3,304,773
		NASA-CASE-XMS-01906			NASA-CASE-XAC-02877			NASA-CASE-XNP-05082
		US-PATENT-APPL-SN-339040			US-PATENT-APPL-SN-449902			US-PATENT-APPL-SN-521753
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-73-30			US-PATENT-CLASS-174-68.5
N70-41447*	c 28	US-PATENT-3,300,162	N70-41682*	c 14	US-PATENT-3,295,360	N70-41961*	c 08	US-PATENT-3,321,570
		NASA-CASE-XNP-00732			NASA-CASE-XMS-05936			NASA-CASE-XNP-00911
		US-PATENT-APPL-SN-261918			US-PATENT-APPL-SN-557868			US-PATENT-APPL-SN-280777
		US-PATENT-CLASS-210-314			US-PATENT-CLASS-73-517			US-PATENT-CLASS-178-67
N70-41576*	c 28	US-PATENT-3,295,684	N70-41717*	c 09	US-PATENT-3,295,377	N70-41964*	c 10	US-PATENT-3,305,636
		NASA-CASE-XLE-00519			NASA-CASE-XMS-02087			NASA-CASE-XGS-01983
		US-PATENT-APPL-SN-249542			US-PATENT-APPL-SN-439489			US-PATENT-APPL-SN-388023
		US-PATENT-CLASS-313-63			US-PATENT-CLASS-165-1			US-PATENT-CLASS-333-79
N70-41578*	c 16	US-PATENT-3,287,582	N70-41807*	c 14	US-PATENT-3,301,315	N70-41967*	c 28	US-PATENT-3,305,801
		NASA-CASE-XGS-01504			NASA-CASE-XNP-01472			NASA-CASE-XLA-02651
		US-PATENT-APPL-SN-340113			US-PATENT-APPL-SN-321656			US-PATENT-APPL-SN-449901
		US-PATENT-CLASS-331-94			US-PATENT-CLASS-178-7.2			US-PATENT-CLASS-102-49
N70-41579*	c 32	US-PATENT-3,287,660	N70-41808*	c 15	US-PATENT-3,287,496	N70-41991*	c 10	US-PATENT-3,304,865
		NASA-CASE-XLE-00620			NASA-CASE-XMS-02532			NASA-CASE-XNP-03128
		US-PATENT-APPL-SN-304698			US-PATENT-APPL-SN-398132			US-PATENT-APPL-SN-397665
		US-PATENT-CLASS-138-119			US-PATENT-CLASS-285-27			US-PATENT-CLASS-250-83.6

N70-41992*	c 28	US-PATENT-3,321,628	N71-10616*	c 14	US-PATENT-3,311,315	N71-10781*	c 14	US-PATENT-3,316,716
		NASA-CASE-XLE-00685			NASA-CASE-XMF-02433			NASA-CASE-XLE-01481
		US-PATENT-APPL-SN-407595			US-PATENT-APPL-SN-405630			US-PATENT-APPL-SN-319905
		US-PATENT-CLASS-60-260			US-PATENT-CLASS-73-70.2			US-PATENT-CLASS-73-99
N70-41993*	c 15	US-PATENT-3,321,922	N71-10617*	c 15	US-PATENT-3,310,978	N71-10782*	c 15	US-PATENT-3,282,091
		NASA-CASE-XLE-01300			NASA-CASE-XMF-01887			NASA-CASE-XKS-01985
		US-PATENT-APPL-SN-380960			US-PATENT-APPL-SN-422868			US-PATENT-APPL-SN-357337
		US-PATENT-CLASS-73-100			US-PATENT-CLASS-308-5			US-PATENT-CLASS-285-24
N70-41994*	c 14	US-PATENT-3,323,356	N71-10618*	c 09	US-PATENT-3,325,229	N71-10797*	c 14	US-PATENT-3,319,979
		NASA-CASE-XMF-02822			NASA-CASE-XNP-03332			NASA-CASE-XLE-01246
		US-PATENT-APPL-SN-403959			US-PATENT-APPL-SN-368123			US-PATENT-APPL-SN-249537
		US-PATENT-CLASS-73-194			US-PATENT-CLASS-313-63			US-PATENT-CLASS-324-61
N70-42000*	c 05	US-PATENT-3,323,362	N71-10658*	c 15	US-PATENT-3,311,772	N71-10798*	c 09	US-PATENT-3,324,388
		NASA-CASE-XMS-03371			NASA-CASE-XMS-03252			NASA-CASE-XMS-00945
		US-PATENT-APPL-SN-418931			US-PATENT-APPL-SN-425362			US-PATENT-APPL-SN-385530
		US-PATENT-CLASS-73-432			US-PATENT-CLASS-60-54.5			US-PATENT-CLASS-330-22
N70-42003*	c 32	US-PATENT-3,323,370	N71-10659*	c 09	US-PATENT-3,318,093	N71-10799*	c 15	US-PATENT-3,319,175
		NASA-CASE-XLA-02131			NASA-CASE-XNP-01383			NASA-CASE-XLA-01807
		US-PATENT-APPL-SN-377777			US-PATENT-APPL-SN-369336			US-PATENT-APPL-SN-442558
		US-PATENT-CLASS-73-90			US-PATENT-CLASS-324-77			US-PATENT-CLASS-287-189.36
N70-42015*	c 31	US-PATENT-3,304,768	N71-10672*	c 15	US-PATENT-3,317,832	N71-10809*	c 15	US-PATENT-3,318,622
		NASA-CASE-XLA-01967			NASA-CASE-XLA-01091			NASA-CASE-XMF-02107
		US-PATENT-APPL-SN-457875			US-PATENT-APPL-SN-351259			US-PATENT-APPL-SN-384811
		US-PATENT-CLASS-244-135			US-PATENT-CLASS-264-102			US-PATENT-CLASS-140-124
N70-42016*	c 02	US-PATENT-3,321,159	N71-10673*	c 09	US-PATENT-3,317,641	N71-11037*	c 02	US-PATENT-3,318,343
		NASA-CASE-XLA-01290			NASA-CASE-XGS-01473			NASA-CASE-XLA-06824-2
		US-PATENT-APPL-SN-393451			US-PATENT-APPL-SN-364867			US-PATENT-APPL-SN-775966
		US-PATENT-CLASS-244-42			US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-244-31
N70-42017*	c 15	US-PATENT-3,321,157	N71-10676*	c 07	US-PATENT-3,317,751	N71-11038*	c 02	US-PATENT-3,508,724
		NASA-CASE-XMS-04072			NASA-CASE-XNP-03134			NASA-CASE-XLA-06958
		US-PATENT-APPL-SN-485960			US-PATENT-APPL-SN-422095			US-PATENT-APPL-SN-551815
		US-PATENT-CLASS-30-228			US-PATENT-CLASS-333-21			US-PATENT-CLASS-244-44
N70-42032*	c 10	US-PATENT-3,320,669	N71-10677*	c 09	US-PATENT-3,324,423	N71-11039*	c 02	US-PATENT-3,310,261
		NASA-CASE-XNP-02654			NASA-CASE-XGS-01451			NASA-CASE-MS-1211-11
		US-PATENT-APPL-SN-435387			US-PATENT-APPL-SN-405629			US-PATENT-APPL-SN-775877
		US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-318-138			US-PATENT-CLASS-244-23
N70-42033*	c 15	US-PATENT-3,321,645	N71-10678*	c 21	US-PATENT-3,324,370	N71-11041* #	c 02	US-PATENT-3,490,721
		NASA-CASE-XNP-02092			NASA-CASE-XGS-01159			NASA-CASE-XLA-03659
		US-PATENT-APPL-SN-371856			US-PATENT-APPL-SN-332313			US-PATENT-APPL-SN-444087
		US-PATENT-CLASS-156-345			US-PATENT-CLASS-250-203			US-PATENT-CLASS-244-46
N70-42034*	c 15	US-PATENT-3,323,967	N71-10728*	c 03	US-PATENT-3,311,748	N71-11043*	c 02	US-PATENT-3,270,989
		NASA-CASE-XNP-01412			NASA-CASE-XNP-01464			NASA-CASE-XLA-08801-1
		US-PATENT-APPL-SN-426702			US-PATENT-APPL-SN-430778			US-PATENT-APPL-SN-710533
		US-PATENT-CLASS-175-310			US-PATENT-CLASS-136-182			US-PATENT-CLASS-244-43
N70-42073*	c 03	US-PATENT-3,321,034	N71-10746*	c 11	US-PATENT-3,317,352	N71-11049*	c 03	US-PATENT-3,493,197
		NASA-CASE-XFR-04104			NASA-CASE-XMS-02977			NASA-CASE-NPO-10109
		US-PATENT-APPL-SN-476759			US-PATENT-APPL-SN-416938			US-PATENT-APPL-SN-701654
		US-PATENT-CLASS-74-471			US-PATENT-CLASS-35-12			US-PATENT-CLASS-136-89
N70-42074*	c 14	US-PATENT-3,323,386	N71-10747*	c 31	US-PATENT-3,281,963	N71-11050*	c 03	US-PATENT-3,532,551
		NASA-CASE-XLE-02998			NASA-CASE-XMF-00442			NASA-CASE-XNP-06506
		US-PATENT-APPL-SN-516794			US-PATENT-APPL-SN-202030			US-PATENT-APPL-SN-577778
		US-PATENT-CLASS-116-117			US-PATENT-CLASS-343-705			US-PATENT-CLASS-136-89
N70-42075*	c 31	US-PATENT-3,323,484	N71-10748*	c 11	US-PATENT-3,277,486	N71-11051*	c 03	US-PATENT-3,446,676
		NASA-CASE-XMS-02677			NASA-CASE-XFR-04147			NASA-CASE-XNP-03378
		US-PATENT-APPL-SN-472066			US-PATENT-APPL-SN-476761			US-PATENT-APPL-SN-360878
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-35-12			US-PATENT-CLASS-136-170
N71-10500*	c 14	US-PATENT-3,321,154	N71-10771*	c 21	US-PATENT-3,281,965	N71-11052*	c 03	US-PATENT-3,282,740
		NASA-CASE-XLE-01609			NASA-CASE-XNP-03914			NASA-CASE-XLE-04526
		US-PATENT-APPL-SN-438797			US-PATENT-APPL-SN-468647			US-PATENT-APPL-SN-640457
		US-PATENT-CLASS-73-290			US-PATENT-CLASS-250-203			US-PATENT-CLASS-136-86
N71-10560*	c 24	US-PATENT-3,326,043	N71-10772*	c 18	US-PATENT-3,317,731	N71-11053*	c 03	US-PATENT-3,507,704
		NASA-CASE-XLE-00808			NASA-CASE-XLE-01765			NASA-CASE-XGS-00886
		US-PATENT-APPL-SN-307269			US-PATENT-APPL-SN-316477			US-PATENT-APPL-SN-319894
		US-PATENT-CLASS-148-188			US-PATENT-CLASS-117-65.2			US-PATENT-CLASS-136-132
N71-10574*	c 28	US-PATENT-3,310,443	N71-10773*	c 14	US-PATENT-3,317,341	N71-11055*	c 03	US-PATENT-3,282,739
		NASA-CASE-XLE-01902			NASA-CASE-XLA-02605			NASA-CASE-XMF-05843
		US-PATENT-APPL-SN-485656			US-PATENT-APPL-SN-459138			US-PATENT-APPL-SN-666553
		US-PATENT-CLASS-60-202			US-PATENT-CLASS-177-210			US-PATENT-CLASS-310-4
N71-10577*	c 15	US-PATENT-3,324,659	N71-10774*	c 14	US-PATENT-3,316,991	N71-11056*	c 03	US-PATENT-3,509,386
		NASA-CASE-XLE-04677			NASA-CASE-XLA-01131			NASA-CASE-XNP-05821
		US-PATENT-APPL-SN-447928			US-PATENT-APPL-SN-322545			US-PATENT-APPL-SN-545223
		US-PATENT-CLASS-220-67			US-PATENT-CLASS-73-23			US-PATENT-CLASS-136-89
N71-10578*	c 10	US-PATENT-3,326,407	N71-10775*	c 07	US-PATENT-3,312,101	N71-11057*	c 03	US-PATENT-3,493,437
		NASA-CASE-XMS-01554			NASA-CASE-XLA-00901			NASA-CASE-MS-13112
		US-PATENT-APPL-SN-414482			US-PATENT-APPL-SN-269212			US-PATENT-APPL-SN-765738
		US-PATENT-CLASS-323-8			US-PATENT-CLASS-325-305			US-PATENT-CLASS-290-40
N71-10582*	c 31	US-PATENT-3,325,723	N71-10776*	c 11	US-PATENT-3,311,832	N71-11058*	c 03	US-PATENT-3,508,070
		NASA-CASE-XLA-02132			NASA-CASE-XLA-03127			NASA-CASE-XGS-01475
		US-PATENT-APPL-SN-453227			US-PATENT-APPL-SN-447927			US-PATENT-APPL-SN-344793
		US-PATENT-CLASS-102-49			US-PATENT-CLASS-35-12			US-PATENT-CLASS-244-1
N71-10604*	c 11	US-PATENT-3,286,630	N71-10777*	c 11	US-PATENT-3,281,964	N71-11189*	c 05	US-PATENT-3,459,391
		NASA-CASE-XMF-03248			NASA-CASE-XLE-01533			NASA-CASE-XFR-10856
		US-PATENT-APPL-SN-377780			US-PATENT-APPL-SN-334678			US-PATENT-APPL-SN-626376
		US-PATENT-CLASS-73-116			US-PATENT-CLASS-55-400			US-PATENT-3,534,727
N71-10607*	c 26	US-PATENT-3,310,980	N71-10778*	c 15	US-PATENT-3,282,035	N71-11190*	c 05	NASA-CASE-XMS-04935
		NASA-CASE-XLE-02792			NASA-CASE-XNP-00710			US-PATENT-APPL-SN-518487
		US-PATENT-APPL-SN-352400			US-PATENT-APPL-SN-271821			US-PATENT-CLASS-128-142.5
		US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-251-61			US-PATENT-3,502,074
N71-10608*	c 03	US-PATENT-3,311,510	N71-10779*	c 14	US-PATENT-3,317,180	N71-11193*	c 05	NASA-CASE-ARC-10043-1
		NASA-CASE-XGS-03505			NASA-CASE-XMF-02307			US-PATENT-APPL-SN-676012
		US-PATENT-APPL-SN-498167			US-PATENT-APPL-SN-422869			US-PATENT-CLASS-128-2.1
		US-PATENT-CLASS-136-28			US-PATENT-CLASS-73-40.5			US-PATENT-3,508,541
N71-10609*	c 07	US-PATENT-3,311,502	N71-10780*	c 28	US-PATENT-3,316,752	N71-11194*	c 05	NASA-CASE-XLA-05332
		NASA-CASE-XGS-01223			NASA-CASE-XLA-01043			US-PATENT-APPL-SN-757861
		US-PATENT-APPL-SN-319892			US-PATENT-APPL-SN-379768			US-PATENT-CLASS-2-2.1
		US-PATENT-CLASS-242-55.19			US-PATENT-CLASS-60-225			US-PATENT-3,534,400

N71-11195*	c 05	NASA-CASE-LAR-10007-1 US-PATENT-APPL-SN-770203 US-PATENT-CLASS-2-2.1 US-PATENT-3,534,406	N71-12258*	c 03	NASA-CASE-XLA-00711 US-PATENT-APPL-SN-357334 US-PATENT-CLASS-89-1.7 US-PATENT-3,249,012	N71-12506*	c 08	NASA-CASE-XNP-08832 US-PATENT-APPL-SN-681692 US-PATENT-CLASS-340-172.5 US-PATENT-3,535,696
N71-11199*	c 05	NASA-CASE-XKS-02342 US-PATENT-APPL-SN-407603 US-PATENT-CLASS-182-191 US-PATENT-3,262,518	N71-12259*	c 03	NASA-CASE-XLA-01396 US-PATENT-APPL-SN-357336 US-PATENT-CLASS-89-1.7 US-PATENT-3,249,013	N71-12507*	c 08	NASA-CASE-XLA-01952 US-PATENT-APPL-SN-676386 US-PATENT-CLASS-340-324 US-PATENT-3,537,096
N71-11202*	c 05	NASA-CASE-XFR-08403 US-PATENT-APPL-SN-704420 US-PATENT-CLASS-73-23 US-PATENT-3,507,146	N71-12260*	c 03	NASA-CASE-XNP-01020 US-PATENT-APPL-SN-430780 US-PATENT-CLASS-60-97 US-PATENT-3,238,730	N71-12513*	c 09	NASA-CASE-XGS-07801 US-PATENT-APPL-SN-640452 US-PATENT-CLASS-148-188 US-PATENT-3,490,965
N71-11203*	c 05	NASA-CASE-XMS-09632-1 US-PATENT-APPL-SN-791693 US-PATENT-CLASS-128-142.5 US-PATENT-3,500,827	N71-12335*	c 05	NASA-CASE-XMS-00784 US-PATENT-APPL-SN-358127 US-PATENT-CLASS-2-2.1 US-PATENT-3,286,274	N71-12514*	c 09	NASA-CASE-XLA-07497 US-PATENT-APPL-SN-631848 US-PATENT-CLASS-307-252 US-PATENT-3,491,255
N71-11207*	c 05	NASA-CASE-XLA-03213 US-PATENT-APPL-SN-621715 US-PATENT-CLASS-202-182 US-PATENT-3,444,051	N71-12336*	c 05	NASA-CASE-XMS-05304 US-PATENT-APPL-SN-511567 US-PATENT-CLASS-244-4 US-PATENT-3,270,986	N71-12515*	c 09	NASA-CASE-XNP-08836 US-PATENT-APPL-SN-668968 US-PATENT-CLASS-340-174 US-PATENT-3,535,702
N71-11235*	c 06	NASA-CASE-XLA-03104 US-PATENT-APPL-SN-510155 US-PATENT-CLASS-260-78 US-PATENT-3,518,232	N71-12341*	c 05	NASA-CASE-MFS-14671 US-PATENT-APPL-SN-723476 US-PATENT-CLASS-297-385 US-PATENT-3,516,711	N71-12516*	c 09	NASA-CASE-XNP-09768 US-PATENT-APPL-SN-698629 US-PATENT-CLASS-307-243 US-PATENT-3,535,554
N71-11236*	c 06	NASA-CASE-XMF-08651 US-PATENT-APPL-SN-593594 US-PATENT-CLASS-260-72.5 US-PATENT-3,526,611	N71-12342*	c 05	NASA-CASE-XAC-05706 US-PATENT-APPL-SN-592694 US-PATENT-CLASS-325-143 US-PATENT-3,453,546	N71-12517*	c 09	NASA-CASE-XAC-10608-1 US-PATENT-APPL-SN-710561 US-PATENT-CLASS-333-80 US-PATENT-3,493,901
N71-11237*	c 06	NASA-CASE-XMF-10753 US-PATENT-APPL-SN-668751 US-PATENT-CLASS-260-46.5 US-PATENT-3,444,127	N71-12343*	c 05	NASA-CASE-MS-11253 US-PATENT-APPL-SN-695973 US-PATENT-CLASS-297-68 US-PATENT-3,466,085	N71-12518*	c 09	NASA-CASE-XNP-09808 US-PATENT-APPL-SN-692471 US-PATENT-CLASS-200-61.42 US-PATENT-3,488,461
N71-11238*	c 06	NASA-CASE-XLA-08802 US-PATENT-APPL-SN-640454 US-PATENT-CLASS-260-78 US-PATENT-3,532,673	N71-12344*	c 05	NASA-CASE-XMS-09636 US-PATENT-APPL-SN-586330 US-PATENT-CLASS-2-2.1 US-PATENT-3,492,672	N71-12519*	c 09	NASA-CASE-XMF-06519 US-PATENT-APPL-SN-656952 US-PATENT-CLASS-328-110 US-PATENT-3,535,644
N71-11239*	c 06	NASA-CASE-XMF-08655 US-PATENT-APPL-SN-593593 US-PATENT-CLASS-260-72.5 US-PATENT-3,516,970	N71-12345*	c 05	NASA-CASE-MS-12086-1 US-PATENT-APPL-SN-812999 US-PATENT-CLASS-29-400 US-PATENT-3,490,130	N71-12520*	c 09	NASA-CASE-NPO-10230 US-PATENT-APPL-SN-691735 US-PATENT-CLASS-307-229 US-PATENT-3,535,547
N71-11240*	c 06	NASA-CASE-MFS-13994-1 US-PATENT-APPL-SN-715975 US-PATENT-CLASS-260-46.5 US-PATENT-3,516,964	N71-12346*	c 05	NASA-CASE-XMS-04212-1 US-PATENT-APPL-SN-607461 US-PATENT-CLASS-128-2.1 US-PATENT-3,490,440	N71-12521*	c 09	NASA-CASE-ARC-10030 US-PATENT-APPL-SN-679885 US-PATENT-CLASS-313-110 US-PATENT-3,493,805
N71-11242*	c 06	NASA-CASE-XMF-08656 US-PATENT-APPL-SN-593605 US-PATENT-CLASS-260-2.5 US-PATENT-3,493,524	N71-12351*	c 05	NASA-CASE-LAR-10056 US-PATENT-APPL-SN-674357 US-PATENT-CLASS-224-25 US-PATENT-3,493,153	N71-12526*	c 09	NASA-CASE-MS-12135-1 US-PATENT-APPL-SN-781404 US-PATENT-CLASS-317-31 US-PATENT-3,448,341
N71-11243*	c 06	NASA-CASE-XMF-08652 US-PATENT-APPL-SN-593606 US-PATENT-CLASS-260-2 US-PATENT-3,493,522	N71-12389*	c 07	NASA-CASE-XLA-01090 US-PATENT-APPL-SN-741824 US-PATENT-CLASS-250-199 US-PATENT-RE-26,548	N71-12539*	c 09	NASA-CASE-ERC-10552 US-PATENT-APPL-SN-720125 US-PATENT-CLASS-178-7.7 US-PATENT-3,535,446
N71-11266*	c 07	NASA-CASE-XLA-03076 US-PATENT-APPL-SN-591004 US-PATENT-CLASS-325-42 US-PATENT-3,508,152	N71-12390*	c 07	NASA-CASE-XER-09213 US-PATENT-APPL-SN-668302 US-PATENT-CLASS-332-9 US-PATENT-3,535,657	N71-12540*	c 09	NASA-CASE-XNP-01058 US-PATENT-APPL-SN-313136 US-PATENT-CLASS-315-160 US-PATENT-3,271,620
N71-11267*	c 07	NASA-CASE-XNP-10843 US-PATENT-APPL-SN-649358 US-PATENT-CLASS-325-363 US-PATENT-3,508,156	N71-12391*	c 07	NASA-CASE-XMS-05454-1 US-PATENT-APPL-SN-771803 US-PATENT-CLASS-343-17.7 US-PATENT-3,471,858	N71-12554*	c 10	NASA-CASE-NPO-10348 US-PATENT-APPL-SN-704668 US-PATENT-CLASS-324-95 US-PATENT-3,532,979
N71-11281*	c 07	NASA-CASE-XNP-10830 US-PATENT-APPL-SN-692332 US-PATENT-CLASS-178-69.5 US-PATENT-3,535,451	N71-12392*	c 07	NASA-CASE-XGS-01590 US-PATENT-APPL-SN-584067 US-PATENT-CLASS-178-88 US-PATENT-3,491,202	N71-13410*	c 01	NASA-CASE-XLA-00755 US-PATENT-APPL-SN-247423 US-PATENT-CLASS-244-35 US-PATENT-3,270,988
N71-11282*	c 07	NASA-CASE-XGS-02889 US-PATENT-APPL-SN-685748 US-PATENT-CLASS-329-104 US-PATENT-3,501,704	N71-12396*	c 07	NASA-CASE-GSC-10452 US-PATENT-APPL-SN-797794 US-PATENT-CLASS-343-776 US-PATENT-3,495,262	N71-13411*	c 01	NASA-CASE-XLA-05828 US-PATENT-APPL-SN-509460 US-PATENT-CLASS-235-61.6 US-PATENT-3,500,020
N71-11284*	c 07	NASA-CASE-XLA-01552 US-PATENT-APPL-SN-332339 US-PATENT-CLASS-325-65 US-PATENT-3,277,375	N71-12494*	c 08	NASA-CASE-XGS-04767 US-PATENT-APPL-SN-645584 US-PATENT-CLASS-307-296 US-PATENT-3,535,560	N71-13421*	c 02	NASA-CASE-XFR-00756 US-PATENT-APPL-SN-212173 US-PATENT-CLASS-235-150.22 US-PATENT-3,258,582
N71-11285*	c 07	NASA-CASE-NPO-10539 US-PATENT-APPL-SN-743429 US-PATENT-CLASS-343-779 US-PATENT-3,534,375	N71-12500*	c 08	NASA-CASE-XNP-07040 US-PATENT-APPL-SN-649357 US-PATENT-CLASS-332-31 US-PATENT-3,535,658	N71-13422*	c 02	NASA-CASE-XLA-06339 US-PATENT-APPL-SN-801336 US-PATENT-CLASS-244-76 US-PATENT-3,534,930
N71-11298*	c 07	NASA-CASE-XMF-01160 US-PATENT-APPL-SN-310507 US-PATENT-CLASS-340-198 US-PATENT-3,243,791	N71-12501*	c 08	NASA-CASE-XLA-00670 US-PATENT-APPL-SN-235162 US-PATENT-CLASS-340-347 US-PATENT-3,251,053	N71-13461*	c 06	NASA-CASE-LAR-10180-1 US-PATENT-APPL-SN-709398 US-PATENT-CLASS-250-41.9 US-PATENT-3,521,054
N71-11300*	c 07	NASA-CASE-XMS-07168 US-PATENT-APPL-SN-769788 US-PATENT-CLASS-178-6.6 US-PATENT-3,493,677	N71-12502*	c 08	NASA-CASE-NPO-10112 US-PATENT-APPL-SN-673226 US-PATENT-CLASS-340-172.5 US-PATENT-3,533,074	N71-13486*	c 09	NASA-CASE-MFS-20333 US-PATENT-APPL-SN-820965 US-PATENT-CLASS-307-149 US-PATENT-3,535,543
N71-11766*	c 21	NASA-CASE-LAR-10403 US-PATENT-APPL-SN-676391 US-PATENT-CLASS-343-6.5 US-PATENT-3,447,154	N71-12503*	c 08	NASA-CASE-NPO-10351 US-PATENT-APPL-SN-712065 US-PATENT-CLASS-328-37 US-PATENT-3,535,642	N71-13518*	c 09	NASA-CASE-MS-12178-1 US-PATENT-APPL-SN-845365 US-PATENT-CLASS-315-241 US-PATENT-3,530,336
N71-12217* #	c 01	NASA-CASE-FRC-10063 US-PATENT-APPL-SN-21263 US-PATENT-CLASS-340-0451 US-PATENT-APPL-SN-457876	N71-12504*	c 08	NASA-CASE-XMF-05835 US-PATENT-APPL-SN-627257 US-PATENT-CLASS-340-174 US-PATENT-3,493,942	N71-13521*	c 09	NASA-CASE-XKS-09348 US-PATENT-APPL-SN-677505 US-PATENT-CLASS-343-703 US-PATENT-3,526,897
N71-12255*	c 03	NASA-CASE-NPO-10404 US-PATENT-APPL-SN-728234	N71-12505*	c 08	NASA-CASE-XNP-05415 US-PATENT-APPL-SN-578932	N71-13522*	c 09	NASA-CASE-LEW-10364-1 US-PATENT-APPL-SN-822518

		US-PATENT-CLASS-317-258			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-60-35.6
N71-13530*	c 09	US-PATENT-3,535,602	N71-15562*	c 25	US-PATENT-3,535,013	N71-15625*	c 33	US-PATENT-3,270,503
		NASA-CASE-XNP-00384			NASA-CASE-XLA-03374			NASA-CASE-XLE-01399
		US-PATENT-APPL-SN-180392			US-PATENT-APPL-SN-793770			US-PATENT-APPL-SN-320233
		US-PATENT-CLASS-324-132			US-PATENT-CLASS-315-111			US-PATENT-CLASS-13-26
N71-13531*	c 09	US-PATENT-3,263,171	N71-15563*	c 28	US-PATENT-3,535,586	N71-15634*	c 27	US-PATENT-3,263,016
		NASA-CASE-MSC-12033-1			NASA-CASE-XLA-02865			NASA-CASE-XLE-01988
		US-PATENT-APPL-SN-602828			US-PATENT-APPL-SN-416946			US-PATENT-APPL-SN-308918
		US-PATENT-CLASS-330-11			US-PATENT-CLASS-244-53			US-PATENT-CLASS-60-35.6
N71-13537*	c 10	US-PATENT-3,526,845	N71-15565*	c 16	US-PATENT-3,270,990	N71-15635*	c 27	US-PATENT-3,258,912
		NASA-CASE-XNP-08274			NASA-CASE-MFS-20074			NASA-CASE-XLE-01182
		US-PATENT-APPL-SN-730703			US-PATENT-APPL-SN-801312			US-PATENT-APPL-SN-411949
		US-PATENT-CLASS-73-382			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-60-39.46
N71-13545*	c 10	US-PATENT-3,520,190	N71-15566*	c 31	US-PATENT-3,535,012	N71-15637*	c 31	US-PATENT-3,258,918
		NASA-CASE-LAR-10774			NASA-CASE-XKS-08012-2			NASA-CASE-XLE-01640
		US-PATENT-APPL-SN-802820			US-PATENT-APPL-SN-874958			US-PATENT-APPL-SN-473535
		US-PATENT-CLASS-73-1			US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-60-35.6
		US-PATENT-3,534,584			US-PATENT-3,535,683			US-PATENT-3,270,504
N71-13789*	c 15	NASA-CASE-XLA-01141	N71-15567*	c 16	NASA-CASE-ERC-10017	N71-15641*	c 33	NASA-CASE-XNP-09802
		US-PATENT-APPL-SN-353632			US-PATENT-APPL-SN-677506			US-PATENT-APPL-SN-673229
		US-PATENT-CLASS-102-49			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-73-190
		US-PATENT-3,263,610			US-PATENT-3,535,012			US-PATENT-3,531,989
N71-13958*	c 21	NASA-CASE-GSC-10087-2	N71-15568*	c 33	NASA-CASE-XLE-09475-1	N71-15642*	c 21	NASA-CASE-XGS-03431
		US-PATENT-APPL-SN-701744			US-PATENT-APPL-SN-710945			US-PATENT-APPL-SN-588635
		US-PATENT-CLASS-343-112			US-PATENT-CLASS-136-228			US-PATENT-CLASS-250-203
		US-PATENT-3,495,260			US-PATENT-3,535,165			US-PATENT-3,488,504
N71-14014*	c 18	NASA-CASE-GSC-10072	N71-15571*	c 15	NASA-CASE-XLA-07911	N71-15643*	c 31	NASA-CASE-NPO-10311
		US-PATENT-APPL-SN-686296			US-PATENT-APPL-SN-660572			US-PATENT-APPL-SN-725475
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-33-207			US-PATENT-CLASS-73-116
		US-PATENT-3,493,401			US-PATENT-3,492,739			US-PATENT-3,534,597
N71-14032*	c 33	NASA-CASE-XLE-05913	N71-15582*	c 21	NASA-CASE-XLA-01163	N71-15644*	c 17	NASA-CASE-XLE-00726
		US-PATENT-APPL-SN-551933			US-PATENT-APPL-SN-405632			US-PATENT-APPL-SN-355126
		US-PATENT-CLASS-117-106			US-PATENT-CLASS-60-35.55			US-PATENT-CLASS-75-170
		US-PATENT-3,490,939			US-PATENT-3,270,505			US-PATENT-3,271,140
N71-14035*	c 33	NASA-CASE-XLE-03307	N71-15583*	c 21	NASA-CASE-XMF-01598	N71-15647*	c 31	NASA-CASE-XGS-01143
		US-PATENT-APPL-SN-613979			US-PATENT-APPL-SN-333770			US-PATENT-APPL-SN-349781
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-244-1			US-PATENT-CLASS-60-35.6
		US-PATENT-3,490,718			US-PATENT-3,270,985			US-PATENT-3,270,501
N71-14043*	c 28	NASA-CASE-XLE-01124	N71-15597*	c 15	NASA-CASE-XLE-08917	N71-15658*	c 28	NASA-CASE-XLE-00409
		US-PATENT-APPL-SN-312269			US-PATENT-APPL-SN-662829			US-PATENT-APPL-SN-249539
		US-PATENT-CLASS-60-35.5			US-PATENT-CLASS-113-116			US-PATENT-CLASS-29-157
		US-PATENT-3,238,715			US-PATENT-3,490,405			US-PATENT-3,254,395
N71-14044*	c 28	NASA-CASE-XGS-08729	N71-15598*	c 14	NASA-CASE-XAC-00812	N71-15659*	c 28	NASA-CASE-XLE-05689
		US-PATENT-APPL-SN-667637			US-PATENT-APPL-SN-255132			US-PATENT-APPL-SN-491845
		US-PATENT-CLASS-60-200			US-PATENT-CLASS-73-341			US-PATENT-CLASS-60-35.60
		US-PATENT-3,490,235			US-PATENT-3,238,777			US-PATENT-3,254,487
N71-14058*	c 28	NASA-CASE-MSC-12139-1	N71-15599*	c 14	NASA-CASE-XNP-04161	N71-15660*	c 28	NASA-CASE-XMF-00968
		US-PATENT-APPL-SN-797796			US-PATENT-APPL-SN-568356			US-PATENT-APPL-SN-339825
		US-PATENT-CLASS-103-37			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-60-35.6
		US-PATENT-3,492,947			US-PATENT-3,444,375			US-PATENT-3,270,499
N71-14090*	c 27	NASA-CASE-LAR-10173-1	N71-15600*	c 14	NASA-CASE-XKS-06250	N71-15661*	c 28	NASA-CASE-XLE-02066
		US-PATENT-APPL-SN-758942			US-PATENT-APPL-SN-649075			US-PATENT-APPL-SN-426455
		US-PATENT-CLASS-149-19			US-PATENT-CLASS-73-97			US-PATENT-CLASS-60-35.5
		US-PATENT-3,492,176			US-PATENT-3,492,862			US-PATENT-3,262,262
N71-14132*	c 21	NASA-CASE-XLA-05464	N71-15604*	c 14	NASA-CASE-NPO-10337	N71-15663*	c 31	NASA-CASE-XLA-00256
		US-PATENT-APPL-SN-656995			US-PATENT-APPL-SN-714296			US-PATENT-APPL-SN-333766
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-58			US-PATENT-CLASS-244-1
		US-PATENT-3,493,194			US-PATENT-3,488,103			US-PATENT-3,262,655
N71-14159*	c 21	NASA-CASE-XGS-04393	N71-15605*	c 14	NASA-CASE-GSC-10062	N71-15664*	c 31	NASA-CASE-XLA-01332
		US-PATENT-APPL-SN-700142			US-PATENT-APPL-SN-658955			US-PATENT-APPL-SN-250974
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-285			US-PATENT-CLASS-220-15
		US-PATENT-3,490,719			US-PATENT-3,493,294			US-PATENT-3,270,908
N71-14354*	c 26	NASA-CASE-ERC-10138	N71-15606*	c 15	NASA-CASE-XNP-06031	N71-15673*	c 23	NASA-CASE-XMS-01620
		US-PATENT-APPL-SN-821586			US-PATENT-APPL-SN-590144			US-PATENT-APPL-SN-357340
		US-PATENT-CLASS-225-2			US-PATENT-CLASS-250-52			US-PATENT-CLASS-248-358
		US-PATENT-3,493,155			US-PATENT-3,493,746			US-PATENT-3,243,154
N71-14932*	c 15	NASA-CASE-LEW-11531	N71-15607*	c 15	NASA-CASE-XMF-03287	N71-15674*	c 31	NASA-CASE-XLA-03691
		US-PATENT-APPL-SN-643332			US-PATENT-APPL-SN-658956			US-PATENT-APPL-SN-667625
		US-PATENT-CLASS-219-72			US-PATENT-CLASS-228-7			US-PATENT-CLASS-244-1
		US-PATENT-3,493,711			US-PATENT-3,443,732			US-PATENT-3,534,924
N71-14996*	c 14	NASA-CASE-XLA-00936	N71-15608*	c 15	NASA-CASE-NPO-10117	N71-15675*	c 31	NASA-CASE-XMF-03169
		US-PATENT-APPL-SN-282818			US-PATENT-APPL-SN-668238			US-PATENT-APPL-SN-375405
		US-PATENT-CLASS-73-170			US-PATENT-CLASS-138-42			US-PATENT-CLASS-89-1.5
		US-PATENT-3,238,774			US-PATENT-3,493,012			US-PATENT-3,262,365
N71-15467*	c 23	NASA-CASE-XNP-03796	N71-15609*	c 15	NASA-CASE-XMF-04709	N71-15676*	c 31	NASA-CASE-XGS-05579
		US-PATENT-APPL-SN-453231			US-PATENT-APPL-SN-683507			US-PATENT-APPL-SN-719869
		US-PATENT-CLASS-62-6			US-PATENT-CLASS-137-81.5			US-PATENT-CLASS-244-1
		US-PATENT-3,260,055			US-PATENT-3,493,003			US-PATENT-3,534,925
N71-15468*	c 17	NASA-CASE-LEW-10393-1	N71-15610*	c 15	NASA-CASE-XLE-01604-2	N71-15687*	c 31	NASA-CASE-XLA-05369
		US-PATENT-APPL-SN-644799			US-PATENT-APPL-SN-683613			US-PATENT-APPL-SN-765123
		US-PATENT-CLASS-75-202			US-PATENT-CLASS-117-50			US-PATENT-CLASS-102-49.5
		US-PATENT-3,535,110			US-PATENT-3,493,415			US-PATENT-3,534,686
N71-15469*	c 18	NASA-CASE-ARC-10099-1	N71-15620*	c 14	NASA-CASE-XLA-01926	N71-15688*	c 18	NASA-CASE-XNP-03459-2
		US-PATENT-APPL-SN-704224			US-PATENT-APPL-SN-784521			US-PATENT-APPL-SN-681942
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-340-57			US-PATENT-CLASS-260-404.5
		US-PATENT-3,535,130			US-PATENT-3,491,335			US-PATENT-3,535,352
N71-15545*	c 18	NASA-CASE-XMS-09691-1	N71-15621*	c 14	NASA-CASE-XNP-09572	N71-15689*	c 31	NASA-CASE-MFS-14685
		US-PATENT-APPL-SN-738119			US-PATENT-APPL-SN-660841			US-PATENT-APPL-SN-752947
		US-PATENT-CLASS-8-94.12			US-PATENT-CLASS-35-10.2			US-PATENT-CLASS-180-118
		US-PATENT-3,526,473			US-PATENT-3,493,665			US-PATENT-CLASS-180-121
N71-15550*	c 16	NASA-CASE-XNP-05219	N71-15622*	c 14	NASA-CASE-XNP-04111	N71-15692*	c 31	US-PATENT-3,534,826
		US-PATENT-APPL-SN-336103			US-PATENT-APPL-SN-560969			NASA-CASE-XLA-01339
		US-PATENT-CLASS-330-4			US-PATENT-CLASS-350-213			US-PATENT-APPL-SN-373591
		US-PATENT-3,299,364			US-PATENT-3,493,291			US-PATENT-CLASS-102-49
N71-15551*	c 16	NASA-CASE-ERC-10019	N71-15623*	c 33	NASA-CASE-XMS-01816	N71-15871*	c 15	US-PATENT-3,260,204
		US-PATENT-APPL-SN-677508			US-PATENT-APPL-SN-425364			NASA-CASE-XMF-02033

N71-15906*	c 15	US-PATENT-APPL-SN-434143	N71-16030*	c 10	US-PATENT-APPL-SN-304749	N71-16098*	c 23	US-PATENT-APPL-SN-701732
		US-PATENT-CLASS-219-131			US-PATENT-CLASS-35-29			US-PATENT-CLASS-250-41.9
N71-15907*	c 07	US-PATENT-3,271,558	N71-16031*	c 12	US-PATENT-3,270,441	N71-16099*	c 23	US-PATENT-3,532,880
		NASA-CASE-XNP-00920			NASA-CASE-XMF-01096			NASA-CASE-XAC-03107
N71-15908*	c 08	US-PATENT-APPL-SN-329331	N71-16037*	c 26	US-PATENT-APPL-SN-307270	N71-16100*	c 23	US-PATENT-APPL-SN-538168
		US-PATENT-CLASS-62-2			US-PATENT-CLASS-318-376			US-PATENT-CLASS-73-505
N71-15909*	c 10	US-PATENT-3,270,512	N71-16042*	c 10	US-PATENT-3,271,649	N71-16101*	c 23	US-PATENT-3,455,171
		NASA-CASE-XNP-01057			NASA-CASE-XMS-01445			NASA-CASE-XGS-07514
N71-15910*	c 10	US-PATENT-APPL-SN-301683	N71-16044*	c 17	US-PATENT-APPL-SN-385526	N71-16102*	c 31	US-PATENT-APPL-SN-640453
		US-PATENT-CLASS-343-786			US-PATENT-CLASS-137-615			US-PATENT-CLASS-328-1
N71-15918*	c 15	US-PATENT-3,305,870	N71-16046*	c 18	US-PATENT-3,308,848	N71-16103*	c 32	US-PATENT-3,509,469
		NASA-CASE-XLA-02705			NASA-CASE-XGS-05718			NASA-CASE-XGS-05715
N71-15922*	c 15	US-PATENT-APPL-SN-473537	N71-16052*	c 15	US-PATENT-APPL-SN-584071	N71-16104*	c 33	US-PATENT-APPL-SN-668257
		US-PATENT-CLASS-129-16.7			US-PATENT-CLASS-29-472.9			US-PATENT-CLASS-250-233
N71-15925*	c 11	US-PATENT-3,310,054	N71-16057*	c 10	US-PATENT-3,452,423	N71-16105*	c 18	US-PATENT-3,532,894
		NASA-CASE-XAC-03777			NASA-CASE-XAC-00942			NASA-CASE-XNP-08883
N71-15926*	c 11	US-PATENT-APPL-SN-484489	N71-16073*	c 25	US-PATENT-APPL-SN-310506	N71-16120*	c 18	US-PATENT-APPL-SN-617021
		US-PATENT-CLASS-200-6			US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-356-117
N71-15962*	c 14	US-PATENT-3,283,088	N71-16075*	c 15	US-PATENT-3,277,314	N71-16121*	c 23	US-PATENT-3,520,617
		NASA-CASE-XGS-00823			NASA-CASE-XGS-06306			NASA-CASE-XGS-09190
N71-15966*	c 15	US-PATENT-APPL-SN-336607	N71-16076*	c 15	US-PATENT-APPL-SN-685473	N71-16122*	c 31	US-PATENT-APPL-SN-647298
		US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-156-3			US-PATENT-CLASS-343-915
N71-15967*	c 15	US-PATENT-3,283,175	N71-16077*	c 15	US-PATENT-3,532,568	N71-16123*	c 24	US-PATENT-3,521,290
		NASA-CASE-XMS-02383			NASA-CASE-GSC-10007			NASA-CASE-LAR-10317-1
N71-15968*	c 15	US-PATENT-APPL-SN-299042	N71-16078*	c 15	US-PATENT-APPL-SN-627599	N71-16124*	c 18	US-PATENT-APPL-SN-739927
		US-PATENT-CLASS-140-123			US-PATENT-CLASS-117-201			US-PATENT-CLASS-137-582
N71-15969*	c 14	US-PATENT-3,299,913	N71-16079*	c 15	US-PATENT-3,532,538	N71-16222*	c 31	US-PATENT-3,508,578
		NASA-CASE-XGS-01971			NASA-CASE-XLE-02999			NASA-CASE-XLE-00785
N71-15974*	c 32	US-PATENT-APPL-SN-353645	N71-16080*	c 31	US-PATENT-APPL-SN-431235	N71-16223*	c 27	US-PATENT-APPL-SN-666554
		US-PATENT-CLASS-85-33			US-PATENT-CLASS-29-148.4			US-PATENT-CLASS-60-108
N71-15978*	c 23	US-PATENT-3,262,351	N71-16081*	c 31	US-PATENT-3,262,186	N71-16224*	c 28	US-PATENT-3,508,402
		NASA-CASE-XLA-00378			NASA-CASE-XNP-01193			NASA-CASE-XLE-08511-2
N71-15986*	c 15	US-PATENT-APPL-SN-266107	N71-16085*	c 31	US-PATENT-APPL-SN-366226	N71-16227*	c 33	US-PATENT-APPL-SN-711921
		US-PATENT-CLASS-219-10.49			US-PATENT-CLASS-324-57			US-PATENT-CLASS-117-119
N71-15990*	c 30	US-PATENT-3,238,345	N71-16086*	c 09	US-PATENT-3,277,366	N71-16228*	c 33	US-PATENT-3,508,955
		NASA-CASE-XLA-00939			NASA-CASE-XMF-01097			NASA-CASE-XLA-04605
N71-15992*	c 14	US-PATENT-APPL-SN-309354	N71-16087*	c 02	US-PATENT-APPL-SN-290873	N71-16281*	c 20	US-PATENT-APPL-SN-619519
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-340-227			US-PATENT-CLASS-137-582
N71-16014*	c 14	US-PATENT-3,276,251	N71-16088*	c 07	US-PATENT-3,277,458	N71-16340*	c 20	US-PATENT-3,443,584
		NASA-CASE-XAC-00731			NASA-CASE-XAC-05695			NASA-CASE-XMF-05279
N71-16025*	c 17	US-PATENT-APPL-SN-232318	N71-16089*	c 09	US-PATENT-APPL-SN-634038	N71-16341*	c 23	US-PATENT-APPL-SN-617774
		US-PATENT-CLASS-220-89			US-PATENT-CLASS-324-34			US-PATENT-CLASS-106-88
N71-16026*	c 17	US-PATENT-3,145,874	N71-16090*	c 30	US-PATENT-3,517,302	N71-16345*	c 31	US-PATENT-3,508,940
		NASA-CASE-XGS-01587			NASA-CASE-XLA-00284			NASA-CASE-XNP-08837
N71-16028*	c 11	US-PATENT-APPL-SN-298799	N71-16095*	c 24	US-PATENT-APPL-SN-240760	N71-16346*	c 31	US-PATENT-APPL-SN-691736
		US-PATENT-CLASS-324-43			US-PATENT-CLASS-117-69			US-PATENT-CLASS-204-20
		US-PATENT-3,258,687			US-PATENT-3,264,135			US-PATENT-3,526,580
		NASA-CASE-XLE-00953			NASA-CASE-XLE-00106			NASA-CASE-NPO-10250
		US-PATENT-APPL-SN-336320			US-PATENT-APPL-SN-629759			US-PATENT-APPL-SN-736848
		US-PATENT-CLASS-22-200			US-PATENT-CLASS-25-156			US-PATENT-CLASS-149-1
		US-PATENT-3,237,253			US-PATENT-2,944,316			US-PATENT-3,516,879
		NASA-CASE-XLE-00703			NASA-CASE-XLA-00302			NASA-CASE-XGS-06628
		US-PATENT-APPL-SN-271822			US-PATENT-APPL-SN-284266			US-PATENT-APPL-SN-665680
		US-PATENT-CLASS-137-13			US-PATENT-CLASS-117-46			US-PATENT-CLASS-315-111
		US-PATENT-3,270,756			US-PATENT-3,271,181			US-PATENT-3,509,419
		NASA-CASE-XLE-00586			NASA-CASE-XGS-00824			NASA-CASE-XLA-05906
		US-PATENT-APPL-SN-317391			US-PATENT-APPL-SN-379072			US-PATENT-APPL-SN-777766
		US-PATENT-CLASS-55-160			US-PATENT-CLASS-89-1			US-PATENT-CLASS-73-432
		US-PATENT-3,257,780			US-PATENT-3,309,961			US-PATENT-3,526,139
		NASA-CASE-XMF-01099			NASA-CASE-XLA-00415			NASA-CASE-MFS-11133
		US-PATENT-APPL-SN-73367			US-PATENT-APPL-SN-314074			US-PATENT-APPL-SN-693419
		US-PATENT-CLASS-73-517			US-PATENT-CLASS-233-11			US-PATENT-CLASS-244-1
		US-PATENT-3,261,210			US-PATENT-3,276,679			US-PATENT-3,508,723
		NASA-CASE-XMS-06782			NASA-CASE-MSC-12049			NASA-CASE-MFS-12750
		US-PATENT-APPL-SN-691739			US-PATENT-APPL-SN-693420			US-PATENT-APPL-SN-806149
		US-PATENT-CLASS-338-5			US-PATENT-CLASS-52-3			US-PATENT-CLASS-73-432
		US-PATENT-3,464,049			US-PATENT-3,465,482			US-PATENT-3,526,140
		NASA-CASE-XGS-00373			NASA-CASE-XGS-03351			NASA-CASE-MFS-11497
		US-PATENT-APPL-SN-105518			US-PATENT-APPL-SN-472747			US-PATENT-APPL-SN-730733
		US-PATENT-CLASS-161-189			US-PATENT-CLASS-244-31			US-PATENT-CLASS-239-265.43
		US-PATENT-3,276,946			US-PATENT-3,276,726			US-PATENT-3,526,365
		NASA-CASE-XMF-03498			NASA-CASE-XLA-09881			NASA-CASE-XMS-04268
		US-PATENT-APPL-SN-396443			US-PATENT-APPL-SN-710562			US-PATENT-APPL-SN-516160
		US-PATENT-CLASS-29-155.55			US-PATENT-CLASS-244-138			US-PATENT-CLASS-165-133
		US-PATENT-3,258,831			US-PATENT-3,520,503			US-PATENT-3,502,141
		NASA-CASE-XAC-08494			NASA-CASE-XLE-02038			NASA-CASE-MFS-11977
		US-PATENT-APPL-SN-690998			US-PATENT-APPL-SN-349782			US-PATENT-APPL-SN-539237
		US-PATENT-CLASS-356-74			US-PATENT-CLASS-73-147			US-PATENT-CLASS-219-364
		US-PATENT-3,532,428			US-PATENT-3,273,388			US-PATENT-3,517,162
		NASA-CASE-XGS-01052			NASA-CASE-XAC-02058			NASA-CASE-XLA-02081
		US-PATENT-APPL-SN-314572			US-PATENT-APPL-SN-342572			US-PATENT-APPL-SN-522795
		US-PATENT-CLASS-73-15			US-PATENT-CLASS-244-1			US-PATENT-CLASS-73-189
		US-PATENT-3,242,716			US-PATENT-3,276,722			US-PATENT-3,507,150
		NASA-CASE-XLE-00820			NASA-CASE-XGS-01022			NASA-CASE-XMF-14032
		US-PATENT-APPL-SN-228569			US-PATENT-APPL-SN-331323			US-PATENT-APPL-SN-679862
		US-PATENT-CLASS-324-32			US-PATENT-CLASS-325-4			US-PATENT-CLASS-250-209
		US-PATENT-3,283,241			US-PATENT-3,277,373			US-PATENT-3,501,641
		NASA-CASE-XLE-02991			NASA-CASE-XAC-02405			NASA-CASE-XGS-05291
		US-PATENT-APPL-SN-375401			US-PATENT-APPL-SN-433821			US-PATENT-APPL-SN-553891
		US-PATENT-CLASS-75-170			US-PATENT-CLASS-200-6			US-PATENT-CLASS-356-209
		US-PATENT-3,276,865			US-PATENT-3,271,532			US-PATENT-3,504,983
		NASA-CASE-XLE-02082			NASA-CASE-GSC-10083-1			NASA-CASE-XMF-05344
		US-PATENT-APPL-SN-360180			US-PATENT-APPL-SN-641431			US-PATENT-APPL-SN-702396
		US-PATENT-CLASS-75-171			US-PATENT-CLASS-343-6			US-PATENT-CLASS-244-1
		US-PATENT-3,276,866			US-PATENT-3,471,856			US-PATENT-3,520,496
		NASA-CASE-XLA-01787			NASA-CASE-XAC-05506-1			NASA-CASE-XMS-03613

		US-PATENT-APPL-SN-802816				US-PATENT-APPL-SN-270118	N71-17685*	c 15	NASA-CASE-NPO-10034
		US-PATENT-CLASS-244-1				US-PATENT-CLASS-230-162			US-PATENT-APPL-SN-668241
		US-PATENT-3,526,372				US-PATENT-3,309,012			US-PATENT-CLASS-339-17
N71-16348*	c 27	NASA-CASE-MSC-12280	N71-17626*	c 14	NASA-CASE-LAR-10274-1	US-PATENT-APPL-SN-717052	N71-17686*	c 15	US-PATENT-3,464,051
		US-PATENT-APPL-SN-372648			US-PATENT-CLASS-188-1	US-PATENT-3,491,857			NASA-CASE-MFS-20586
		US-PATENT-CLASS-250-43.5			US-PATENT-CLASS-356-106	US-PATENT-CLASS-188-1			US-PATENT-APPL-SN-688868
N71-16355*	c 23	US-PATENT-3,501,632	N71-17627*	c 14	NASA-CASE-XGS-03532	US-PATENT-3,491,857	N71-17687*	c 15	US-PATENT-CLASS-29-428
		NASA-CASE-XGS-05534			US-PATENT-APPL-SN-538913	US-PATENT-CLASS-356-106			US-PATENT-3,526,030
		US-PATENT-APPL-SN-578925			US-PATENT-CLASS-356-106	US-PATENT-3,488,123	N71-17688*	c 15	NASA-CASE-XLA-04143
		US-PATENT-CLASS-23-253	N71-17628*	c 15	NASA-CASE-MFS-10340	US-PATENT-APPL-SN-716734			US-PATENT-APPL-SN-628246
N71-16356*	c 33	US-PATENT-3,520,660			US-PATENT-CLASS-225-1	US-PATENT-CLASS-225-1			US-PATENT-CLASS-156-510
		NASA-CASE-NPO-10158			US-PATENT-3,507,425	US-PATENT-3,507,425	N71-17689*	c 15	US-PATENT-3,508,999
		US-PATENT-APPL-SN-730702	N71-17629*	c 31	NASA-CASE-XLE-03583	US-PATENT-APPL-SN-716734			NASA-CASE-XLE-09527
		US-PATENT-CLASS-73-343			US-PATENT-APPL-SN-400617	US-PATENT-CLASS-244-3.22			US-PATENT-APPL-SN-686344
		US-PATENT-3,526,134			US-PATENT-CLASS-244-3.22	US-PATENT-3,276,376	N71-17691*	c 31	US-PATENT-CLASS-29-148.4
N71-16357*	c 33	NASA-CASE-NPO-10138	N71-17631*	c 12	NASA-CASE-NPO-10122	US-PATENT-3,276,376			US-PATENT-3,500,525
		US-PATENT-APPL-SN-759457			US-PATENT-APPL-SN-710949	US-PATENT-CLASS-60-217			NASA-CASE-XLA-00937
		US-PATENT-CLASS-236-1			US-PATENT-CLASS-60-217	US-PATENT-3,534,555			US-PATENT-APPL-SN-393461
N71-16365*	c 23	US-PATENT-3,526,359	N71-17645*	c 32	NASA-CASE-XNP-01153	US-PATENT-CLASS-73-88	N71-17692*	c 15	US-PATENT-CLASS-244-3.14
		NASA-CASE-XNP-08840			US-PATENT-CLASS-73-88	US-PATENT-3,273,381			US-PATENT-APPL-SN-774151
		US-PATENT-APPL-SN-649360			US-PATENT-CLASS-73-88	US-PATENT-3,273,381			US-PATENT-CLASS-74-63
		US-PATENT-CLASS-356-36			US-PATENT-CLASS-73-88	US-PATENT-3,273,381	N71-17693*	c 15	US-PATENT-3,529,480
		US-PATENT-3,526,460	N71-17647*	c 15	NASA-CASE-XMF-01667	US-PATENT-APPL-SN-577115			NASA-CASE-NPO-10064
N71-16392*	c 27	NASA-CASE-XNP-09744			US-PATENT-APPL-SN-577115	US-PATENT-CLASS-118-11			US-PATENT-APPL-SN-668755
		US-PATENT-APPL-SN-685750	N71-17648*	c 15	NASA-CASE-MSC-12116-1	US-PATENT-CLASS-118-11	N71-17694*	c 15	US-PATENT-3,501,112
		US-PATENT-CLASS-60-39.47			US-PATENT-APPL-SN-768336	US-PATENT-CLASS-118-11			NASA-CASE-XNP-08897
		US-PATENT-3,507,114			US-PATENT-CLASS-251-358	US-PATENT-3,508,739			US-PATENT-APPL-SN-640450
N71-16393*	c 17	NASA-CASE-NPO-10271	N71-17649*	c 15	NASA-CASE-MFS-11132	US-PATENT-APPL-SN-744910	N71-17696*	c 15	US-PATENT-CLASS-318-22
		US-PATENT-APPL-SN-763869			US-PATENT-CLASS-248-360	US-PATENT-3,526,382			US-PATENT-3,501,683
		US-PATENT-CLASS-21-207			US-PATENT-CLASS-248-360	US-PATENT-3,526,382			NASA-CASE-XLA-05100
N71-16428*	c 32	US-PATENT-3,529,928	N71-17650*	c 15	NASA-CASE-XMF-05114	US-PATENT-APPL-SN-637882			US-PATENT-APPL-SN-724551
		NASA-CASE-XLA-03135			US-PATENT-CLASS-29-517	US-PATENT-CLASS-29-517	N71-17701*	c 14	US-PATENT-CLASS-73-103
		US-PATENT-APPL-SN-582171			US-PATENT-CLASS-310-93	US-PATENT-3,493,797			US-PATENT-3,487,680
		US-PATENT-CLASS-73-71.4	N71-17651*	c 15	NASA-CASE-XLE-03803-2	US-PATENT-APPL-SN-669336	N71-17705*	c 06	NASA-CASE-NPO-10144
		US-PATENT-3,503,251			US-PATENT-CLASS-156-172	US-PATENT-CLASS-156-172			US-PATENT-APPL-SN-688805
N71-16894*	c 12	NASA-CASE-XLA-02079	N71-17652*	c 15	NASA-CASE-XLE-05079	US-PATENT-CLASS-244-1	N71-17729*	c 31	US-PATENT-CLASS-73-29
		US-PATENT-APPL-SN-435756			US-PATENT-CLASS-310-93	US-PATENT-3,493,797			US-PATENT-3,534,585
		US-PATENT-CLASS-188-87			US-PATENT-CLASS-310-93	US-PATENT-3,493,797			NASA-CASE-XGS-05532
		US-PATENT-3,310,138	N71-17653*	c 15	NASA-CASE-ARC-10140-1	US-PATENT-APPL-SN-783379			US-PATENT-APPL-SN-570093
N71-17569*	c 12	NASA-CASE-MSC-12084-1			US-PATENT-CLASS-24-211	US-PATENT-CLASS-85-3			US-PATENT-CLASS-195-99
		US-PATENT-APPL-SN-762438	N71-17654*	c 15	NASA-CASE-XNP-09702	US-PATENT-APPL-SN-730734	N71-17730*	c 31	US-PATENT-3,423,290
		US-PATENT-CLASS-73-204			US-PATENT-CLASS-239-416	US-PATENT-CLASS-239-416			NASA-CASE-XAC-01591
		US-PATENT-3,500,686			US-PATENT-CLASS-3,534,909	US-PATENT-CLASS-3,534,909			US-PATENT-APPL-SN-385527
N71-17573*	c 12	NASA-CASE-LAR-10323-1	N71-17655*	c 14	NASA-CASE-NPO-10320	US-PATENT-APPL-SN-601228			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-738314			US-PATENT-CLASS-310-93	US-PATENT-CLASS-310-93			US-PATENT-3,282,532
		US-PATENT-CLASS-73-45.5			US-PATENT-3,493,797	US-PATENT-3,493,797	N71-17730*	c 31	NASA-CASE-XMF-01543
		US-PATENT-3,516,284	N71-17656*	c 14	NASA-CASE-MFS-12827	US-PATENT-APPL-SN-742816			US-PATENT-APPL-SN-402365
N71-17574*	c 14	NASA-CASE-XGS-04993			US-PATENT-CLASS-73-88.5	US-PATENT-CLASS-73-88.5			US-PATENT-CLASS-102-49
		US-PATENT-APPL-SN-577775			US-PATENT-3,534,650	US-PATENT-3,534,650	N71-17788*	c 30	US-PATENT-3,286,629
		US-PATENT-CLASS-96-49			NASA-CASE-XNP-09702	US-PATENT-APPL-SN-730734			NASA-CASE-XGS-00783
		US-PATENT-3,458,313	N71-17657*	c 14	NASA-CASE-ARC-10140-1	US-PATENT-CLASS-24-211			US-PATENT-APPL-SN-372438
N71-17575*	c 14	NASA-CASE-XMF-06531			US-PATENT-CLASS-85-3	US-PATENT-3,534,650			US-PATENT-CLASS-73-432
		US-PATENT-APPL-SN-732917			US-PATENT-CLASS-239-416	US-PATENT-CLASS-239-416	N71-17802*	c 23	US-PATENT-3,286,531
		US-PATENT-CLASS-204-195	N71-17658*	c 14	NASA-CASE-XNP-09702	US-PATENT-APPL-SN-730734			NASA-CASE-XLE-00454
		US-PATENT-3,509,034			US-PATENT-CLASS-239-416	US-PATENT-CLASS-239-416			US-PATENT-APPL-SN-295855
N71-17578*	c 12	NASA-CASE-MFS-10412			US-PATENT-CLASS-3,534,909	US-PATENT-CLASS-3,534,909	N71-17803*	c 15	US-PATENT-CLASS-73-295
		US-PATENT-APPL-SN-701635			US-PATENT-CLASS-3,534,909	US-PATENT-CLASS-3,534,909			US-PATENT-3,273,392
		US-PATENT-CLASS-137-81.5	N71-17659*	c 14	NASA-CASE-MFS-12827	US-PATENT-APPL-SN-742816			NASA-CASE-XMS-05516
		US-PATENT-3,520,317			US-PATENT-CLASS-73-88.5	US-PATENT-CLASS-73-88.5			US-PATENT-APPL-SN-563648
N71-17579*	c 12	NASA-CASE-XLA-07391			US-PATENT-3,534,592	US-PATENT-3,534,592			US-PATENT-CLASS-264-92
		US-PATENT-APPL-SN-726898	N71-17657*	c 14	NASA-CASE-XNP-09205	US-PATENT-APPL-SN-768473			US-PATENT-3,488,414
		US-PATENT-CLASS-137-81.5			US-PATENT-CLASS-33-149	US-PATENT-CLASS-33-149	N71-17805*	c 15	NASA-CASE-MFS-12805
		US-PATENT-3,493,004			US-PATENT-3,534,479	US-PATENT-3,534,479			US-PATENT-APPL-SN-758082
N71-17584*	c 14	NASA-CASE-XNP-09462	N71-17658*	c 14	NASA-CASE-XMF-04966	US-PATENT-APPL-SN-727480			US-PATENT-CLASS-192-43.1
		US-PATENT-APPL-SN-658957			US-PATENT-CLASS-33-174	US-PATENT-CLASS-33-174			US-PATENT-CLASS-81-63.1
		US-PATENT-CLASS-73-57			US-PATENT-3,534,480	US-PATENT-3,534,480	N71-17818*	c 26	US-PATENT-3,534,836
		US-PATENT-3,500,677	N71-17659*	c 14	NASA-CASE-XMF-02964	US-PATENT-APPL-SN-493942			NASA-CASE-XMF-01016
N71-17585*	c 14	NASA-CASE-XGS-05680			US-PATENT-CLASS-73-15.4	US-PATENT-CLASS-73-15.4			US-PATENT-APPL-SN-326299
		US-PATENT-APPL-SN-656953			US-PATENT-3,465,569	US-PATENT-3,465,569			US-PATENT-CLASS-264-27
		US-PATENT-CLASS-318-138	N71-17661*	c 12	NASA-CASE-NPO-10298	US-PATENT-APPL-SN-745852			US-PATENT-3,274,304
		US-PATENT-3,501,664			US-PATENT-CLASS-137-341	US-PATENT-CLASS-137-341	N71-17897*	c 33	NASA-CASE-XLA-00892
N71-17586*	c 14	NASA-CASE-XLA-08646			US-PATENT-CLASS-137-341	US-PATENT-CLASS-137-341			US-PATENT-APPL-SN-245941
		US-PATENT-APPL-SN-677476	N71-17662*	c 14	NASA-CASE-NPO-10300	US-PATENT-APPL-SN-718769			US-PATENT-CLASS-62-467
		US-PATENT-CLASS-73-105			US-PATENT-CLASS-350-285	US-PATENT-CLASS-350-285	N71-18064*	c 26	US-PATENT-3,273,355
		US-PATENT-3,534,596			US-PATENT-3,535,024	US-PATENT-3,535,024			NASA-CASE-XNP-01328
N71-17587*	c 14	NASA-CASE-XMF-05844	N71-17679*	c 31	NASA-CASE-XNP-02507	US-PATENT-APPL-SN-475299			US-PATENT-APPL-SN-296879
		US-PATENT-APPL-SN-706564			US-PATENT-CLASS-244-1	US-PATENT-CLASS-244-1			US-PATENT-CLASS-317-234
		US-PATENT-CLASS-73-382			US-PATENT-3,310,256	US-PATENT-3,310,256			US-PATENT-3,271,637
		US-PATENT-3,500,688	N71-17680*	c 31	NASA-CASE-XLA-00117	US-PATENT-APPL-SN-835153	N71-18132*	c 15	NASA-CASE-MFS-13686
N71-17588*	c 14	NASA-CASE-MFS-12806			US-PATENT-CLASS-220-89	US-PATENT-CLASS-220-89			US-PATENT-APPL-SN-716183
		US-PATENT-APPL-SN-686933			US-PATENT-CLASS-244-1	US-PATENT-CLASS-244-1			US-PATENT-CLASS-73-67.2
		US-PATENT-CLASS-55-179			US-PATENT-3,531,982	US-PATENT-3,531,982			US-PATENT-3,531,982
		US-PATENT-3,490,205			US-PATENT-CLASS-244-1	US-PATENT-CLASS-244-1	N71-18465*	c 14	NASA-CASE-NPO-10174
N71-17599*	c 05	NASA-CASE-MSC-12206-1			US-PATENT-CLASS-244-1	US-PATENT-CLASS-244-1			US-PATENT-APPL-SN-690163
		US-PATENT-APPL-SN-856258			US-PATENT-CLASS-244-1	US-PATENT-CLASS-244-1			US-PATENT-CLASS-95-11
		US-PATENT-CLASS-128-142.5			US-PATENT-CLASS-220-11	US-PATENT-CLASS-220-11			US-PATENT-3,520,238
		US-PATENT-3,516,404			US-PATENT-CLASS-220-11	US-PATENT-CLASS-220-11	N71-18481*	c 14	NASA-CASE-XLA-02758
N71-17600*	c 11	NASA-CASE-MFS-12915			US-PATENT-CLASS-220-11	US-PATENT-CLASS-220-11			US-PATENT-APPL-SN-759665
		US-PATENT-APPL-SN-694340			US-PATENT-CLASS-220-11	US-PATENT-CLASS-220-11			US-PATENT-CLASS-73-4
		US-PATENT-CLASS-220-89			US-PATENT-CLASS-220-11	US-PATENT-CLASS-220-11			
		US-PATENT-3,469,734			US-PATENT-CLASS-220-11	US-PATENT-CLASS-220-11			
N71-17609*	c 32	NASA-CASE-XLA-02332			US-PATENT-CLASS-220-11	US-PATENT-CLASS-220-11			
		US-PATENT-APPL-SN-388024			US-PATENT-CLASS-220-11	US-PATENT-CLASS-220-11			
		US-PATENT-CLASS-212-11			US-PATENT-CLASS-220-11	US-PATENT-CLASS-220-11			
		US-PATENT-3,276,602			US-PATENT-CLASS-220-11	US-PATENT-CLASS-220-11			
N71-17610*	c 33	NASA-CASE-XLA-00377			US-PATENT-CLASS-220-11	US-PATENT-CLASS-220-11			

N71-18482*	c 14	US-PATENT-3,531,978 NASA-CASE-XLA-07424 US-PATENT-APPL-SN-635326 US-PATENT-CLASS-313-7 US-PATENT-3,466,484	N71-18699*	c 14	US-PATENT-3,507,706 NASA-CASE-XLA-03273 US-PATENT-APPL-SN-487352 US-PATENT-CLASS-250-83.3 US-PATENT-3,458,702	N71-19433*	c 07	US-PATENT-3,517,318 NASA-CASE-MFS-13046 US-PATENT-APPL-SN-673228 US-PATENT-CLASS-178-6 US-PATENT-3,532,807
N71-18483*	c 14	NASA-CASE-XER-09519 US-PATENT-APPL-SN-676375 US-PATENT-CLASS-55-208 US-PATENT-3,469,375	N71-18701*	c 15	NASA-CASE-XMF-07587 US-PATENT-APPL-SN-649359 US-PATENT-CLASS-317-122 US-PATENT-3,448,346	N71-19435*	c 08	NASA-CASE-XGS-02612 US-PATENT-APPL-SN-502743 US-PATENT-CLASS-340-347 US-PATENT-3,509,558
N71-18578*	c 11	NASA-CASE-XAC-05902 US-PATENT-APPL-SN-662828 US-PATENT-CLASS-89-8 US-PATENT-3,465,638	N71-18720*	c 09	NASA-CASE-MS-12101 US-PATENT-APPL-SN-763705 US-PATENT-CLASS-343-718 US-PATENT-3,509,570	N71-19436*	c 07	NASA-CASE-XMF-09422 US-PATENT-APPL-SN-783378 US-PATENT-CLASS-174-35 US-PATENT-3,517,109
N71-18579*	c 15	NASA-CASE-XGS-04175 US-PATENT-APPL-SN-606464 US-PATENT-CLASS-72-364 US-PATENT-3,465,567	N71-18721*	c 09	NASA-CASE-XER-07894 US-PATENT-APPL-SN-644444 US-PATENT-CLASS-331-107 US-PATENT-3,509,491	N71-19437*	c 08	NASA-CASE-XGS-04768 US-PATENT-APPL-SN-598119 US-PATENT-CLASS-235-158 US-PATENT-3,508,039
N71-18580*	c 15	NASA-CASE-XNP-09698 US-PATENT-APPL-SN-698592 US-PATENT-CLASS-138-4 US-PATENT-CLASS-138-45 US-PATENT-CLASS-251-118 US-PATENT-CLASS-251-121 US-PATENT-3,532,128	N71-18722*	c 10	NASA-CASE-ERC-10046 US-PATENT-APPL-SN-793772 US-PATENT-CLASS-343-100 US-PATENT-3,501,764	N71-19438*	c 03	NASA-CASE-XGS-05432 US-PATENT-APPL-SN-549860 US-PATENT-CLASS-320-23 US-PATENT-3,426,263
N71-18594*	c 08	NASA-CASE-XAC-04031 US-PATENT-APPL-SN-538905 US-PATENT-CLASS-340-347 US-PATENT-3,533,098	N71-18723*	c 10	NASA-CASE-XNP-09450 US-PATENT-APPL-SN-640459 US-PATENT-CLASS-307-273 US-PATENT-3,501,649	N71-19439*	c 05	NASA-CASE-XMS-09571 US-PATENT-APPL-SN-678700 US-PATENT-CLASS-165-46 US-PATENT-3,425,487
N71-18595*	c 08	NASA-CASE-XGS-03303 US-PATENT-APPL-SN-520838 US-PATENT-CLASS-340-174 US-PATENT-3,501,752	N71-18724*	c 10	NASA-CASE-XLA-09371 US-PATENT-APPL-SN-568160 US-PATENT-CLASS-318-257 US-PATENT-3,504,258	N71-19440*	c 05	NASA-CASE-XMS-01177 US-PATENT-APPL-SN-516150 US-PATENT-CLASS-250-83 US-PATENT-3,427,454
N71-18598*	c 09	NASA-CASE-NPO-10066 US-PATENT-APPL-SN-681693 US-PATENT-CLASS-343-13 US-PATENT-3,447,155	N71-18751*	c 08	NASA-CASE-XLA-07732 US-PATENT-APPL-SN-641441 US-PATENT-CLASS-307-216 US-PATENT-3,512,009	N71-19449*	c 09	NASA-CASE-XFR-03107 US-PATENT-APPL-SN-507257 US-PATENT-CLASS-178-6 US-PATENT-3,458,651
N71-18599*	c 09	NASA-CASE-LAR-10372 US-PATENT-APPL-SN-730162 US-PATENT-CLASS-102-70.2 US-PATENT-3,500,747	N71-18752*	c 08	NASA-CASE-XMF-00663 US-PATENT-APPL-SN-205470 US-PATENT-CLASS-321-5 US-PATENT-3,521,143	N71-19466*	c 09	NASA-CASE-XGS-02812 US-PATENT-APPL-SN-502750 US-PATENT-CLASS-330-30 US-PATENT-3,466,560
N71-18600*	c 09	NASA-CASE-MS-12168-1 US-PATENT-APPL-SN-640154 US-PATENT-CLASS-312-296 US-PATENT-3,447,850	N71-18772*	c 10	NASA-CASE-GSC-10366-1 US-PATENT-APPL-SN-771523 US-PATENT-CLASS-318-138 US-PATENT-3,532,948	N71-19467*	c 10	NASA-CASE-XMF-08665 US-PATENT-APPL-SN-582609 US-PATENT-CLASS-325-63 US-PATENT-3,470,475
N71-18602*	c 08	NASA-CASE-XGS-04766 US-PATENT-APPL-SN-598120 US-PATENT-CLASS-235-175 US-PATENT-3,532,866	N71-18773*	c 11	NASA-CASE-XMF-07488 US-PATENT-APPL-SN-707495 US-PATENT-CLASS-35-12 US-PATENT-3,534,485	N71-19468*	c 10	NASA-CASE-XMS-05605-1 US-PATENT-APPL-SN-764812 US-PATENT-CLASS-178-69.5 US-PATENT-3,532,819
N71-18603*	c 12	NASA-CASE-ERC-10031 US-PATENT-APPL-SN-741461 US-PATENT-CLASS-40-28 US-PATENT-3,516,185	N71-18830*	c 09	NASA-CASE-XAC-10768 US-PATENT-APPL-SN-711970 US-PATENT-CLASS-250-83 US-PATENT-3,508,053	N71-19469*	c 10	NASA-CASE-XNP-00777 US-PATENT-APPL-SN-486573 US-PATENT-CLASS-329-122 US-PATENT-3,517,268
N71-18611*	c 31	NASA-CASE-MFS-20400 US-PATENT-APPL-SN-551694 US-PATENT-CLASS-152-11 US-PATENT-3,493,027	N71-18843*	c 09	NASA-CASE-XNP-03263 US-PATENT-APPL-SN-506908 US-PATENT-CLASS-340-146.1 US-PATENT-3,501,743	N71-19470*	c 09	NASA-CASE-XGS-05289 US-PATENT-APPL-SN-632104 US-PATENT-CLASS-331-113 US-PATENT-3,470,496
N71-18613*	c 15	NASA-CASE-XNP-02588 US-PATENT-APPL-SN-563644 US-PATENT-CLASS-219-91 US-PATENT-3,466,418	N71-19212*	c 21	NASA-CASE-MFS-20386 US-PATENT-APPL-SN-818349 US-PATENT-CLASS-356-28 US-PATENT-3,532,427	N71-19471*	c 10	NASA-CASE-XLE-03804 US-PATENT-APPL-SN-526631 US-PATENT-CLASS-307-235 US-PATENT-3,463,939
N71-18614*	c 16	NASA-CASE-XGS-03644 US-PATENT-APPL-SN-505320 US-PATENT-CLASS-331-94.5 US-PATENT-3,517,328	N71-19213*	c 15	NASA-CASE-MFS-14259 US-PATENT-APPL-SN-787410 US-PATENT-CLASS-138-43 US-PATENT-3,536,103	N71-19472*	c 10	NASA-CASE-XAC-04030 US-PATENT-APPL-SN-520839 US-PATENT-CLASS-328-1 US-PATENT-3,464,016
N71-18615*	c 12	NASA-CASE-XNP-09704 US-PATENT-APPL-SN-730701 US-PATENT-CLASS-137-594 US-PATENT-CLASS-138-46 US-PATENT-CLASS-251-127 US-PATENT-CLASS-251-333 US-PATENT-CLASS-251-342 US-PATENT-CLASS-251-61.1 US-PATENT-3,532,118	N71-19214*	c 15	NASA-CASE-MFS-20410 US-PATENT-APPL-SN-819599 US-PATENT-CLASS-244-1 US-PATENT-3,534,926	N71-19479*	c 09	NASA-CASE-XMS-04300 US-PATENT-APPL-SN-516158 US-PATENT-CLASS-350-275 US-PATENT-3,427,093
N71-18616*	c 15	NASA-CASE-XLA-07390 US-PATENT-APPL-SN-665681 US-PATENT-CLASS-72-53 US-PATENT-3,531,964	N71-19287*	c 02	NASA-CASE-GSC-10087-1 US-PATENT-APPL-SN-701679 US-PATENT-CLASS-343-112 US-PATENT-3,534,367	N71-19480*	c 09	NASA-CASE-XFR-05637 US-PATENT-APPL-SN-484855 US-PATENT-CLASS-235-194 US-PATENT-3,423,579
N71-18625*	c 14	NASA-CASE-NPO-10175 US-PATENT-APPL-SN-685787 US-PATENT-CLASS-137-505.12 US-PATENT-3,443,583	N71-19288*	c 08	NASA-CASE-NPO-10068 US-PATENT-APPL-SN-668969 US-PATENT-CLASS-340-172.5 US-PATENT-3,501,750	N71-19485*	c 15	NASA-CASE-MS-11010 US-PATENT-APPL-SN-605090 US-PATENT-CLASS-251-31 US-PATENT-3,447,774
N71-18692*	c 08	NASA-CASE-MFS-14322 US-PATENT-APPL-SN-646934 US-PATENT-CLASS-328-134 US-PATENT-3,501,701	N71-19417*	c 10	NASA-CASE-XMS-10984-1 US-PATENT-APPL-SN-605095 US-PATENT-CLASS-340-213.1 US-PATENT-3,533,093	N71-19486*	c 15	NASA-CASE-XMF-08522 US-PATENT-APPL-SN-640447 US-PATENT-CLASS-219-121 US-PATENT-3,474,220
N71-18693*	c 08	NASA-CASE-XGS-04765 US-PATENT-APPL-SN-577545 US-PATENT-CLASS-235-156 US-PATENT-3,508,036	N71-19418*	c 10	NASA-CASE-GSC-10041-1 US-PATENT-APPL-SN-684209 US-PATENT-CLASS-331-113 US-PATENT-3,458,833	N71-19489*	c 15	NASA-CASE-XMF-034040 US-PATENT-APPL-SN-633147 US-PATENT-CLASS-33-147 US-PATENT-3,425,131
N71-18694*	c 08	NASA-CASE-NPO-10201 US-PATENT-APPL-SN-691738 US-PATENT-CLASS-340-174 US-PATENT-3,509,551	N71-19420*	c 08	NASA-CASE-XNP-09453 US-PATENT-APPL-SN-640448 US-PATENT-CLASS-226-190 US-PATENT-3,507,436	N71-19493*	c 07	NASA-CASE-XKS-08485 US-PATENT-APPL-SN-649078 US-PATENT-CLASS-343-873 US-PATENT-3,509,578
N71-18698*	c 03	NASA-CASE-NPO-10373 US-PATENT-APPL-SN-718752 US-PATENT-CLASS-136-89	N71-19421*	c 10	NASA-CASE-XLA-08493 US-PATENT-APPL-SN-749148 US-PATENT-CLASS-324-72 US-PATENT-3,532,975	N71-19494*	c 11	NASA-CASE-MFS-10555 US-PATENT-APPL-SN-700984 US-PATENT-CLASS-35-12 US-PATENT-3,516,179
			N71-19431*	c 14	NASA-CASE-XGS-02439 US-PATENT-APPL-SN-487341 US-PATENT-CLASS-324-120 US-PATENT-3,422,352	N71-19516*	c 09	NASA-CASE-XNP-06937 US-PATENT-APPL-SN-640449 US-PATENT-CLASS-330-30 US-PATENT-3,501,712
			N71-19432*	c 08	NASA-CASE-XGS-02440 US-PATENT-APPL-SN-655677 US-PATENT-CLASS-328-42	N71-19544*	c 08	NASA-CASE-XGS-01230 US-PATENT-APPL-SN-356488 US-PATENT-CLASS-340-347

N71-19545*	c 03	US-PATENT-3,474,441	N71-20439*	c 14	US-PATENT-3,461,721	N71-20742*	c 18	US-PATENT-3,360,980
		NASA-CASE-NPO-10821			NASA-CASE-XAC-04886-1			NASA-CASE-XMS-02952
		US-PATENT-APPL-SN-670814			US-PATENT-APPL-SN-574290			US-PATENT-APPL-SN-519160
N71-19547*	c 10	US-PATENT-CLASS-136-89	N71-20440*	c 15	US-PATENT-CLASS-73-142	N71-20743*	c 17	US-PATENT-CLASS-55-158
		US-PATENT-3,466,198			US-PATENT-3,425,272			US-PATENT-3,355,861
		NASA-CASE-XGS-03058			NASA-CASE-XNP-09770			NASA-CASE-XMF-02786
N71-19568*	c 14	US-PATENT-APPL-SN-568987	N71-20441*	c 15	US-PATENT-APPL-SN-700120	N71-20747*	c 25	US-PATENT-APPL-SN-466873
		US-PATENT-CLASS-307-289			US-PATENT-CLASS-209-10			US-PATENT-CLASS-75-142
		US-PATENT-3,517,221			US-PATENT-3,472,372			US-PATENT-3,347,665
N71-19569*	c 15	NASA-CASE-MSC-10966	N71-20442*	c 14	US-PATENT-APPL-SN-688742	N71-20782*	c 10	NASA-CASE-XLE-02578
		US-PATENT-APPL-SN-665676			US-PATENT-CLASS-73-141			US-PATENT-APPL-SN-469012
		US-PATENT-CLASS-250-203			US-PATENT-3,472,069			US-PATENT-CLASS-313-271
N71-19570*	c 15	US-PATENT-3,421,004	N71-20443*	c 15	US-PATENT-3,472,069	N71-20791*	c 07	US-PATENT-3,356,885
		NASA-CASE-XLA-05749			NASA-CASE-MFS-11537			NASA-CASE-XGS-01784
		US-PATENT-APPL-SN-621714			US-PATENT-APPL-SN-636878			US-PATENT-APPL-SN-396444
N71-19610*	c 09	US-PATENT-CLASS-137-582	N71-20444*	c 15	US-PATENT-CLASS-23-254	N71-20813*	c 15	US-PATENT-CLASS-250-206
		US-PATENT-3,426,791			US-PATENT-3,472,629			US-PATENT-3,348,053
		NASA-CASE-XLE-05130-2			NASA-CASE-MFS-07369			NASA-CASE-XNP-05254
N71-19687*	c 08	US-PATENT-APPL-SN-700586	N71-20445*	c 09	US-PATENT-APPL-SN-640462	N71-20814*	c 07	US-PATENT-APPL-SN-472372
		US-PATENT-CLASS-277-25			US-PATENT-CLASS-29-492			US-PATENT-CLASS-325-31
		US-PATENT-3,466,052			US-PATENT-3,473,216			US-PATENT-3,350,643
N71-19687*	c 08	NASA-CASE-NPO-10037	N71-20446*	c 09	NASA-CASE-XNP-09775	N71-20815*	c 12	NASA-CASE-XMS-02184
		US-PATENT-APPL-SN-700987			US-PATENT-APPL-SN-668247			US-PATENT-APPL-SN-608247
		US-PATENT-CLASS-200-152			US-PATENT-CLASS-333-96			US-PATENT-CLASS-248-27
N71-19763*	c 08	US-PATENT-3,470,342	N71-20447*	c 09	US-PATENT-3,474,357	N71-20816*	c 09	US-PATENT-3,361,400
		NASA-CASE-XNP-04780			NASA-CASE-XLE-04250			NASA-CASE-XNP-01306
		US-PATENT-APPL-SN-455477			US-PATENT-APPL-SN-621098			US-PATENT-APPL-SN-343426
N71-19773*	c 07	US-PATENT-CLASS-340-347	N71-20448*	c 10	US-PATENT-CLASS-310-54	N71-20842*	c 09	US-PATENT-CLASS-179-15
		US-PATENT-3,430,227			US-PATENT-3,447,003			US-PATENT-3,364,311
		NASA-CASE-XAC-06302			NASA-CASE-XLA-02850			NASA-CASE-XMF-01779
N71-19773*	c 07	US-PATENT-APPL-SN-574284	N71-20449*	c 03	US-PATENT-APPL-SN-556784	N71-20843*	c 10	US-PATENT-APPL-SN-521999
		US-PATENT-CLASS-325-60			US-PATENT-CLASS-307-267			US-PATENT-CLASS-346-1
		US-PATENT-3,456,193			US-PATENT-3,473,050			US-PATENT-3,357,024
N71-19854*	c 07	NASA-CASE-GSC-10373-1	N71-20450*	c 14	NASA-CASE-XNP-03744	N71-20844*	c 09	NASA-CASE-XAC-01677
		US-PATENT-APPL-SN-712658			US-PATENT-APPL-SN-547677			US-PATENT-APPL-SN-596338
		US-PATENT-CLASS-325-4			US-PATENT-CLASS-318-314			US-PATENT-CLASS-73-147
N71-19854*	c 07	US-PATENT-3,532,985	N71-20451*	c 14	US-PATENT-3,424,966	N71-20845*	c 10	US-PATENT-3,360,988
		NASA-CASE-GSC-10553-1			NASA-CASE-XNP-09763			NASA-CASE-XMS-02009
		US-PATENT-APPL-SN-820963			US-PATENT-APPL-SN-600682			US-PATENT-APPL-SN-455352
N71-20268*	c 05	US-PATENT-CLASS-343-100	N71-20491*	c 03	US-PATENT-CLASS-117-6	N71-20846*	c 10	US-PATENT-CLASS-141-5
		US-PATENT-3,534,365			US-PATENT-3,433,662			US-PATENT-3,349,814
		NASA-CASE-XLA-02898			NASA-CASE-XGS-05434			NASA-CASE-XGS-01222
N71-20273*	c 03	US-PATENT-APPL-SN-429932	N71-20492*	c 03	US-PATENT-APPL-SN-667636	N71-20847*	c 09	US-PATENT-APPL-SN-354182
		US-PATENT-CLASS-128-1			US-PATENT-CLASS-136-182			US-PATENT-CLASS-325-305
		US-PATENT-3,461,855			US-PATENT-3,463,673			US-PATENT-3,348,152
N71-20273*	c 03	NASA-CASE-NPO-10188	N71-20492*	c 03	NASA-CASE-XLE-04787	N71-20848*	c 09	NASA-CASE-XNP-05381
		US-PATENT-APPL-SN-681687			US-PATENT-APPL-SN-551846			US-PATENT-APPL-SN-568352
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-136-89			US-PATENT-CLASS-338-82
N71-20330*	c 28	US-PATENT-3,473,758	N71-20518*	c 24	US-PATENT-3,434,885	N71-20851*	c 09	US-PATENT-3,350,671
		NASA-CASE-XLE-103477-1			NASA-CASE-XNP-02592			NASA-CASE-XNP-04732
		US-PATENT-APPL-SN-466390			US-PATENT-APPL-SN-484490			US-PATENT-APPL-SN-557584
N71-20330*	c 28	US-PATENT-CLASS-60-39.36	N71-20518*	c 24	US-PATENT-CLASS-324-33	N71-20852*	c 10	US-PATENT-CLASS-339-177
		US-PATENT-3,433,015			US-PATENT-3,430,131			US-PATENT-3,358,264
		NASA-CASE-MFS-06074			NASA-CASE-XLA-06232			NASA-CASE-XGS-03502
N71-20393*	c 15	US-PATENT-APPL-SN-688743	N71-20563*	c 25	US-PATENT-APPL-SN-612740	N71-20852*	c 10	US-PATENT-APPL-SN-584066
		US-PATENT-CLASS-228-9			US-PATENT-CLASS-324-58.5			US-PATENT-CLASS-331-17
		US-PATENT-3,458,104			US-PATENT-3,473,116			US-PATENT-3,361,985
N71-20395*	c 15	NASA-CASE-XMF-06065	N71-20569*	c 09	NASA-CASE-XMS-08589-1	N71-20864*	c 09	NASA-CASE-XGS-03501
		US-PATENT-APPL-SN-665679			US-PATENT-APPL-SN-544899			US-PATENT-APPL-SN-576521
		US-PATENT-CLASS-219-275			US-PATENT-CLASS-324-57			US-PATENT-CLASS-343-16
N71-20396*	c 31	US-PATENT-3,466,424	N71-20570*	c 02	US-PATENT-3,434,050	N71-20895*	c 03	US-PATENT-3,359,555
		NASA-CASE-XMF-08523			NASA-CASE-XAC-08972			NASA-CASE-XNP-00826
		US-PATENT-APPL-SN-645563			US-PATENT-APPL-SN-700174			US-PATENT-APPL-SN-327163
N71-20396*	c 31	US-PATENT-CLASS-244-1	N71-20570*	c 02	US-PATENT-CLASS-244-76	N71-20896*	c 12	US-PATENT-CLASS-136-89
		US-PATENT-3,465,986			US-PATENT-3,472,470			US-PATENT-3,346,419
		NASA-CASE-MFS-11279			NASA-CASE-XGS-04987			NASA-CASE-XNP-02251
N71-20400*	c 16	US-PATENT-APPL-SN-628094	N71-20571*	c 08	US-PATENT-APPL-SN-619908	N71-20896*	c 12	NASA-CASE-XNP-02251
		US-PATENT-CLASS-219-121			US-PATENT-CLASS-315-24			US-PATENT-APPL-SN-432030
		US-PATENT-3,472,998			US-PATENT-3,437,874			US-PATENT-CLASS-321-48
N71-20407*	c 03	NASA-CASE-NPO-10194	N71-20658*	c 09	NASA-CASE-XMS-03454	N71-20904*	c 03	US-PATENT-3,337,790
		US-PATENT-APPL-SN-668249			US-PATENT-APPL-SN-425363			NASA-CASE-XLE-01645
		US-PATENT-CLASS-136-182			US-PATENT-CLASS-343-915			US-PATENT-APPL-SN-342574
N71-20427*	c 14	US-PATENT-3,460,995	N71-20705*	c 09	US-PATENT-3,360,798	N71-20905*	c 06	US-PATENT-CLASS-136-86
		NASA-CASE-XMS-13052			NASA-CASE-XMF-01599			US-PATENT-3,357,862
		US-PATENT-APPL-SN-561223			US-PATENT-APPL-SN-381940			NASA-CASE-XMF-02584
N71-20428*	c 14	US-PATENT-CLASS-62-268	N71-20705*	c 09	US-PATENT-CLASS-117-212	N71-20905*	c 06	US-PATENT-APPL-SN-506135
		US-PATENT-3,455,121			US-PATENT-CLASS-117-212			US-PATENT-CLASS-260-2
		NASA-CASE-XGS-04879			US-PATENT-3,359,132			US-PATENT-3,346,515
N71-20428*	c 14	US-PATENT-APPL-SN-541399	N71-20717*	c 06	NASA-CASE-XMF-04133	N71-20942*	c 28	NASA-CASE-XNP-04389
		US-PATENT-CLASS-324-5			US-PATENT-APPL-SN-554949			US-PATENT-APPL-SN-525311
		US-PATENT-3,443,208			US-PATENT-CLASS-260-2			US-PATENT-CLASS-60-265
N71-20429*	c 14	NASA-CASE-XLE-05260	N71-20718*	c 05	US-PATENT-3,354,098	N71-21006*	c 14	US-PATENT-3,353,359
		US-PATENT-APPL-SN-674355			NASA-CASE-XMS-04625			NASA-CASE-XLA-01832
		US-PATENT-CLASS-73-117.4			US-PATENT-APPL-SN-519161			US-PATENT-APPL-SN-517858
N71-20430*	c 14	US-PATENT-3,463,001	N71-20739*	c 15	US-PATENT-CLASS-244-122	N71-21007*	c 14	US-PATENT-CLASS-346-50
		NASA-CASE-XLA-03645			US-PATENT-3,356,320			US-PATENT-3,354,462
		US-PATENT-APPL-SN-600266			NASA-CASE-XGS-02011			NASA-CASE-XMS-06236
N71-20435*	c 14	US-PATENT-CLASS-250-83	N71-20740*	c 15	US-PATENT-APPL-SN-502693	N71-21042*	c 08	US-PATENT-APPL-SN-482670
		US-PATENT-3,450,878			US-PATENT-CLASS-308-9			US-PATENT-CLASS-73-290
		NASA-CASE-XMS-08767-1			US-PATENT-3,359,046			US-PATENT-3,355,948
N71-20435*	c 14	US-PATENT-APPL-SN-716795	N71-20740*	c 15	NASA-CASE-XLA-01808	N71-21042*	c 08	NASA-CASE-XGS-01021
		US-PATENT-CLASS-73-422			US-PATENT-APPL-SN-517159			US-PATENT-APPL-SN-279646
		US-PATENT-3,438,263			US-PATENT-CLASS-74-471			US-PATENT-CLASS-340-174.1
N71-20436*	c 12	NASA-CASE-LAR-11138	N71-20741*	c 14	US-PATENT-3,364,777	N71-21045*	c 32	US-PATENT-3,327,298
		US-PATENT-APPL-SN-694317			NASA-CASE-XMS-01618			NASA-CASE-XLA-01731
		US-PATENT-CLASS-73-147			US-PATENT-APPL-SN-418362			US-PATENT-APPL-SN-425365
					US-PATENT-CLASS-73-29			US-PATENT-CLASS-52-2

N71-21060*	c 15	US-PATENT-3,364,631	N71-21483*	c 10	US-PATENT-3,345,866	N71-22706*	c 15	US-PATENT-3,341,977
		NASA-CASE-XLA-03660			NASA-CASE-XGS-01155			NASA-CASE-XMS-09310
		US-PATENT-APPL-SN-482307			US-PATENT-APPL-SN-557871			US-PATENT-APPL-SN-655724
		US-PATENT-CLASS-95-53			US-PATENT-CLASS-343-16			US-PATENT-CLASS-137-496
N71-21064*	c 31	US-PATENT-3,361,045	N71-21489*	c 15	US-PATENT-3,344,425	N71-22707*	c 08	US-PATENT-3,384,111
		NASA-CASE-XGS-02554			NASA-CASE-XNP-06914			NASA-CASE-XNP-04067
		US-PATENT-APPL-SN-504266			US-PATENT-APPL-SN-590147			US-PATENT-APPL-SN-466875
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-85-33			US-PATENT-CLASS-340-172.5
N71-21068*	c 18	US-PATENT-3,350,034	N71-21493*	c 28	US-PATENT-3,352,192	N71-22710*	c 08	US-PATENT-3,369,222
		NASA-CASE-XNP-02888			NASA-CASE-XLA-10450			NASA-CASE-XNP-02778
		US-PATENT-APPL-SN-409126			US-PATENT-APPL-SN-594587			US-PATENT-APPL-SN-508170
		US-PATENT-CLASS-239-265.11			US-PATENT-CLASS-239-265.19			US-PATENT-CLASS-340-172.5
N71-21072*	c 14	US-PATENT-3,347,465	N71-21507*	c 33	US-PATENT-3,347,466	N71-22713*	c 15	US-PATENT-3,369,223
		NASA-CASE-XAC-02981			NASA-CASE-XLE-04603			NASA-CASE-XLA-03492
		US-PATENT-APPL-SN-464879			US-PATENT-APPL-SN-638194			US-PATENT-APPL-SN-395348
		US-PATENT-CLASS-73-398			US-PATENT-CLASS-60-243			US-PATENT-CLASS-156-60
N71-21076*	c 15	US-PATENT-3,352,157	N71-21528*	c 15	US-PATENT-3,347,046	N71-22721*	c 15	US-PATENT-3,342,653
		NASA-CASE-XMS-03745			NASA-CASE-XLA-01446			NASA-CASE-XMF-03212
		US-PATENT-APPL-SN-534295			US-PATENT-APPL-SN-400613			US-PATENT-APPL-SN-577549
		US-PATENT-CLASS-24-263			US-PATENT-CLASS-53-102			US-PATENT-CLASS-55-418
N71-21078*	c 15	US-PATENT-3,346,929	N71-21529*	c 15	US-PATENT-3,336,725	N71-22722*	c 15	US-PATENT-3,385,036
		NASA-CASE-XNP-03459			NASA-CASE-XGS-02422			NASA-CASE-XMS-04292
		US-PATENT-APPL-SN-457879			US-PATENT-APPL-SN-493943			US-PATENT-APPL-SN-517157
		US-PATENT-CLASS-29-495			US-PATENT-CLASS-74-126			US-PATENT-CLASS-82-14
N71-21079*	c 14	US-PATENT-3,357,093	N71-21530*	c 15	US-PATENT-3,331,255	N71-22723*	c 15	US-PATENT-3,373,640
		NASA-CASE-XLA-03102			NASA-CASE-XMS-03722			NASA-CASE-XMF-01083
		US-PATENT-APPL-SN-576195			US-PATENT-APPL-SN-487934			US-PATENT-APPL-SN-432028
		US-PATENT-CLASS-33-31			US-PATENT-CLASS-267-64			US-PATENT-CLASS-72-83
N71-21082*	c 14	US-PATENT-3,364,578	N71-21531*	c 15	US-PATENT-3,330,549	N71-22748*	c 05	US-PATENT-3,340,713
		NASA-CASE-XGS-02629			NASA-CASE-XNP-02341			NASA-CASE-XMS-04170
		US-PATENT-APPL-SN-500435			US-PATENT-APPL-SN-432025			US-PATENT-APPL-SN-482311
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-52-127			US-PATENT-CLASS-9-312
N71-21088*	c 14	US-PATENT-3,350,033	N71-21536*	c 15	US-PATENT-3,330,082	N71-22749*	c 08	US-PATENT-3,343,189
		NASA-CASE-XNP-06957			NASA-CASE-XMS-06876			NASA-CASE-XNP-02748
		US-PATENT-APPL-SN-406097			US-PATENT-APPL-SN-605100			US-PATENT-APPL-SN-420245
		US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-72-304			US-PATENT-CLASS-340-146.1
N71-21089*	c 12	US-PATENT-3,348,048	N71-21583*	c 09	US-PATENT-3,345,840	N71-22750*	c 07	US-PATENT-3,373,404
		NASA-CASE-XMS-01905			NASA-CASE-XLE-02008			NASA-CASE-XNP-01735
		US-PATENT-APPL-SN-280580			US-PATENT-APPL-SN-487342			US-PATENT-APPL-SN-408438
		US-PATENT-CLASS-141-91			US-PATENT-CLASS-338-64			US-PATENT-CLASS-343-786
N71-21090*	c 14	US-PATENT-3,331,404	N71-21586*	c 33	US-PATENT-3,329,918	N71-22752*	c 14	US-PATENT-3,373,431
		NASA-CASE-XLE-00787			NASA-CASE-XLA-01794			NASA-CASE-XMF-01974
		US-PATENT-APPL-SN-330210			US-PATENT-APPL-SN-464880			US-PATENT-APPL-SN-568354
		US-PATENT-CLASS-324-33			US-PATENT-CLASS-73-86			US-PATENT-CLASS-73-419
N71-21091*	c 14	US-PATENT-3,346,806	N71-21651*	c 18	US-PATENT-3,357,237	N71-22755*	c 14	US-PATENT-3,383,922
		NASA-CASE-XNP-02983			NASA-CASE-XMF-01402			NASA-CASE-XLA-00934
		US-PATENT-APPL-SN-407599			US-PATENT-APPL-SN-328140			US-PATENT-APPL-SN-326298
		US-PATENT-CLASS-73-88.5			US-PATENT-CLASS-161-68			US-PATENT-CLASS-73-84
N71-21177*	c 15	US-PATENT-3,350,926	N71-21688*	c 21	US-PATENT-3,346,442	N71-22792*	c 33	US-PATENT-3,339,404
		NASA-CASE-XAC-06956			NASA-CASE-XMF-00684			NASA-CASE-XLA-01243
		US-PATENT-APPL-SN-538166			US-PATENT-APPL-SN-260087			US-PATENT-APPL-SN-538911
		US-PATENT-CLASS-259-71			US-PATENT-CLASS-235-150.25			US-PATENT-CLASS-244-1
N71-21179*	c 15	US-PATENT-3,347,531	N71-21693*	c 25	US-PATENT-3,331,951	N71-22796*	c 09	US-PATENT-3,384,324
		NASA-CASE-XLA-01401			NASA-CASE-XLA-03103			NASA-CASE-XKS-03381
		US-PATENT-APPL-SN-382976			US-PATENT-APPL-SN-531642			US-PATENT-APPL-SN-437611
		US-PATENT-CLASS-235-61.6			US-PATENT-CLASS-315-111			US-PATENT-CLASS-317-9
N71-21234*	c 15	US-PATENT-3,346,724	N71-21694*	c 25	US-PATENT-3,333,152	N71-22797*	c 15	US-PATENT-3,340,430
		NASA-CASE-XKS-02582			NASA-CASE-XLE-02902			NASA-CASE-XLE-01092
		US-PATENT-APPL-SN-424153			US-PATENT-APPL-SN-485957			US-PATENT-APPL-SN-422098
		US-PATENT-CLASS-251-172			US-PATENT-CLASS-60-202			US-PATENT-CLASS-72-253
N71-21311*	c 15	US-PATENT-3,327,991	N71-21708*	c 21	US-PATENT-3,336,748	N71-22798*	c 15	US-PATENT-3,342,055
		NASA-CASE-XNP-03637			NASA-CASE-XLA-02551			NASA-CASE-XMS-04178
		US-PATENT-APPL-SN-453232			US-PATENT-APPL-SN-416940			US-PATENT-APPL-SN-511299
		US-PATENT-CLASS-310-9.1			US-PATENT-CLASS-244-1			US-PATENT-CLASS-83-467
N71-21403*	c 15	US-PATENT-3,359,435	N71-21744*	c 15	US-PATENT-3,329,375	N71-22799*	c 15	US-PATENT-3,367,224
		NASA-CASE-XMF-03988			NASA-CASE-XGS-04227			NASA-CASE-XMF-03511
		US-PATENT-APPL-SN-578923			US-PATENT-APPL-SN-545805			US-PATENT-APPL-SN-540414
		US-PATENT-CLASS-252-26			US-PATENT-CLASS-74-409			US-PATENT-CLASS-90-12
N71-21404*	c 15	US-PATENT-3,361,666	N71-21819*	c 27	US-PATENT-3,359,819	N71-22874*	c 15	US-PATENT-3,386,337
		NASA-CASE-XLA-01262			NASA-CASE-XLE-03494			NASA-CASE-XLA-00188
		US-PATENT-APPL-SN-386800			US-PATENT-APPL-SN-529593			US-PATENT-APPL-SN-254847
		US-PATENT-CLASS-156-3			US-PATENT-CLASS-60-251			US-PATENT-CLASS-102-49.5
N71-21449*	c 09	US-PATENT-3,356,549	N71-21821*	c 23	US-PATENT-3,345,822	N71-22875*	c 11	US-PATENT-3,368,486
		NASA-CASE-XMS-01991			NASA-CASE-XNP-01059			NASA-CASE-XAC-05333
		US-PATENT-APPL-SN-410326			US-PATENT-APPL-SN-393464			US-PATENT-APPL-SN-546148
		US-PATENT-CLASS-323-22			US-PATENT-CLASS-250-232			US-PATENT-CLASS-119-15
N71-21473*	c 10	US-PATENT-3,344,340	N71-21822*	c 28	US-PATENT-3,354,320	N71-22877*	c 15	US-PATENT-3,367,308
		NASA-CASE-XGS-08679			NASA-CASE-XNP-04124			NASA-CASE-XMF-10040
		US-PATENT-APPL-SN-312443			US-PATENT-APPL-SN-498168			US-PATENT-APPL-SN-592680
		US-PATENT-CLASS-343-113			US-PATENT-CLASS-60-202			US-PATENT-CLASS-188-1
N71-21474*	c 11	US-PATENT-3,340,532	N71-21824*	c 26	US-PATENT-3,345,820	N71-22878*	c 15	US-PATENT-3,381,778
		NASA-CASE-XMS-04798			NASA-CASE-XNP-05429			NASA-CASE-XMS-04545
		US-PATENT-APPL-SN-480210			US-PATENT-APPL-SN-578928			US-PATENT-APPL-SN-508601
		US-PATENT-CLASS-35-12			US-PATENT-CLASS-103-1			US-PATENT-CLASS-73-144
N71-21475*	c 11	US-PATENT-3,330,052	N71-21881*	c 31	US-PATENT-3,361,067	N71-22880*	c 21	US-PATENT-3,381,527
		NASA-CASE-XLA-05378			NASA-CASE-XNP-02595			NASA-CASE-XLA-00793
		US-PATENT-APPL-SN-484156			US-PATENT-APPL-SN-502709			US-PATENT-APPL-SN-369334
		US-PATENT-CLASS-73-343			US-PATENT-CLASS-244-1			US-PATENT-CLASS-88-1
N71-21476*	c 07	US-PATENT-3,331,246	N71-21882*	c 23	US-PATENT-3,333,788	N71-22881*	c 23	US-PATENT-3,381,569
		NASA-CASE-XNP-00746			NASA-CASE-XNP-03853			NASA-CASE-XLE-04222
		US-PATENT-APPL-SN-271824			US-PATENT-APPL-SN-578931			US-PATENT-APPL-SN-512559
		US-PATENT-CLASS-235-181			US-PATENT-CLASS-88-24			US-PATENT-CLASS-220-9
N71-21481*	c 11	US-PATENT-3,359,409	N71-22705*	c 15	US-PATENT-3,359,855	N71-22888*	c 09	US-PATENT-3,379,330
		NASA-CASE-XLA-01326			NASA-CASE-XGS-02884			NASA-CASE-XLA-03114
		US-PATENT-APPL-SN-422097			US-PATENT-APPL-SN-432433			US-PATENT-APPL-SN-440039
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-51-57			US-PATENT-CLASS-343-70

N71-22890*	c 33	US-PATENT-3,373,430	N71-22993*	c 14	US-PATENT-3,377,845	N71-23037*	c 14	US-PATENT-3,383,903
		NASA-CASE-XLA-07728			NASA-CASE-XMS-05365			NASA-CASE-XAC-01662
		US-PATENT-APPL-SN-538908			US-PATENT-APPL-SN-515484			US-PATENT-APPL-SN-385520
		US-PATENT-CLASS-165-96			US-PATENT-CLASS-310-8.5			US-PATENT-CLASS-324-117
N71-22894*	c 18	US-PATENT-3,374,830	N71-22994*	c 15	US-PATENT-3,387,149	N71-23039*	c 14	US-PATENT-3,365,665
		NASA-CASE-XLE-03925			NASA-CASE-XFR-05421			NASA-CASE-XNP-01659
		US-PATENT-APPL-SN-514407			US-PATENT-APPL-SN-567686			US-PATENT-APPL-SN-410332
		US-PATENT-CLASS-75-204			US-PATENT-CLASS-24-126			US-PATENT-CLASS-136-230
N71-22895*	c 16	US-PATENT-3,337,337	N71-22995*	c 14	US-PATENT-3,378,892	N71-23040*	c 14	US-PATENT-3,377,208
		NASA-CASE-XMS-04269			NASA-CASE-XNP-08680			NASA-CASE-XNP-05535
		US-PATENT-APPL-SN-516793			US-PATENT-APPL-SN-562444			US-PATENT-APPL-SN-487939
		US-PATENT-CLASS-250-199			US-PATENT-CLASS-73-9			US-PATENT-CLASS-244-1
N71-22896*	c 05	US-PATENT-3,341,708	N71-22996*	c 14	US-PATENT-3,376,730	N71-23041*	c 14	US-PATENT-3,339,863
		NASA-CASE-XMS-02399			NASA-CASE-XGS-01331			NASA-CASE-XNP-01056
		US-PATENT-APPL-SN-492344			US-PATENT-APPL-SN-445807			US-PATENT-APPL-SN-377146
		US-PATENT-CLASS-128-2.06			US-PATENT-CLASS-250-218			US-PATENT-CLASS-250-41.9
N71-22897*	c 08	US-PATENT-3,384,075	N71-22997*	c 15	US-PATENT-3,388,258	N71-23042*	c 11	US-PATENT-3,340,395
		NASA-CASE-XNP-01753			NASA-CASE-XNP-01641			NASA-CASE-XMS-02930
		US-PATENT-APPL-SN-423412			US-PATENT-APPL-SN-464885			US-PATENT-APPL-SN-417253
		US-PATENT-CLASS-235-92			US-PATENT-CLASS-308-10			US-PATENT-CLASS-250-52
N71-22961*	c 10	US-PATENT-3,374,339	N71-22998*	c 18	US-PATENT-3,378,315	N71-23043*	c 26	US-PATENT-3,340,397
		NASA-CASE-XMS-02159			NASA-CASE-XGS-02435			NASA-CASE-XNP-01959
		US-PATENT-APPL-SN-534564			US-PATENT-APPL-SN-392965			US-PATENT-APPL-SN-410330
		US-PATENT-CLASS-323-56			US-PATENT-CLASS-106-40			US-PATENT-CLASS-136-89
N71-22962*	c 10	US-PATENT-3,365,657	N71-22999*	c 09	US-PATENT-3,382,082	N71-23046*	c 17	US-PATENT-3,396,057
		NASA-CASE-XGS-05441			NASA-CASE-XLA-00781			NASA-CASE-XNP-04338
		US-PATENT-APPL-SN-505321			US-PATENT-APPL-SN-307271			US-PATENT-APPL-SN-461765
		US-PATENT-CLASS-328-233			US-PATENT-CLASS-88-14			US-PATENT-CLASS-29-182.2
N71-22964*	c 14	US-PATENT-3,366,886	N71-23001*	c 07	US-PATENT-3,364,813	N71-23047*	c 18	US-PATENT-3,421,864
		NASA-CASE-XLE-02024			NASA-CASE-XGS-01812			NASA-CASE-XLA-01995
		US-PATENT-APPL-SN-422099			US-PATENT-APPL-SN-392973			US-PATENT-APPL-SN-411945
		US-PATENT-CLASS-73-15			US-PATENT-CLASS-340-174.1			US-PATENT-CLASS-148-6.16
N71-22965*	c 14	US-PATENT-3,365,930	N71-23006*	c 03	US-PATENT-3,380,042	N71-23048*	c 15	US-PATENT-3,395,053
		NASA-CASE-XGS-02319			NASA-CASE-XGS-02631			NASA-CASE-XNP-03972
		US-PATENT-APPL-SN-496205			US-PATENT-APPL-SN-425972			US-PATENT-APPL-SN-502710
		US-PATENT-CLASS-73-117			US-PATENT-CLASS-136-133			US-PATENT-CLASS-184-1
N71-22968*	c 31	US-PATENT-3,365,941	N71-23007*	c 02	US-PATENT-3,340,099	N71-23049*	c 15	US-PATENT-3,367,445
		NASA-CASE-XLA-02050			NASA-CASE-XMF-04163			NASA-CASE-XNP-01049
		US-PATENT-APPL-SN-568067			US-PATENT-APPL-SN-424156			US-PATENT-APPL-SN-506137
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-73-189			US-PATENT-CLASS-339-5
N71-22969*	c 31	US-PATENT-3,386,685	N71-23008*	c 31	US-PATENT-3,340,732	N71-23050*	c 15	US-PATENT-3,375,479
		NASA-CASE-XLA-03132			NASA-CASE-XLA-04804			NASA-CASE-XMF-01730
		US-PATENT-APPL-SN-610728			US-PATENT-APPL-SN-577546			US-PATENT-APPL-SN-517869
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-102-49.5			US-PATENT-CLASS-228-8
N71-22974*	c 03	US-PATENT-3,386,686	N71-23009*	c 31	US-PATENT-3,384,016	N71-23051*	c 15	US-PATENT-3,373,914
		NASA-CASE-XGS-02630			NASA-CASE-XGS-02607			NASA-CASE-XAC-01158
		US-PATENT-APPL-SN-494287			US-PATENT-APPL-SN-474531			US-PATENT-APPL-SN-420250
		US-PATENT-CLASS-136-132			US-PATENT-CLASS-244-1			US-PATENT-CLASS-137-625.5
N71-22975*	c 06	US-PATENT-3,382,107	N71-23015*	c 09	US-PATENT-3,341,151	N71-23052*	c 15	US-PATENT-3,369,564
		NASA-CASE-XNP-07659			NASA-CASE-XGS-02751			NASA-CASE-XLA-03497
		US-PATENT-APPL-SN-567806			US-PATENT-APPL-SN-491059			US-PATENT-APPL-SN-392992
		US-PATENT-CLASS-18-26			US-PATENT-CLASS-307-288			US-PATENT-CLASS-156-285
N71-22982*	c 15	US-PATENT-3,381,339	N71-23021*	c 09	US-PATENT-3,374,366	N71-23080*	c 05	US-PATENT-3,373,069
		NASA-CASE-XLA-02809			NASA-CASE-XAC-02807			NASA-CASE-XLE-02531
		US-PATENT-APPL-SN-554897			US-PATENT-APPL-SN-456581			US-PATENT-APPL-SN-425096
		US-PATENT-CLASS-308-176			US-PATENT-CLASS-324-120			US-PATENT-CLASS-312-1
N71-22983*	c 28	US-PATENT-3,397,932	N71-23022*	c 15	US-PATENT-3,384,820	N71-23081*	c 28	US-PATENT-3,337,279
		NASA-CASE-XMF-06926			NASA-CASE-XMS-01625			NASA-CASE-XNP-02923
		US-PATENT-APPL-SN-537615			US-PATENT-APPL-SN-418933			US-PATENT-APPL-SN-494280
		US-PATENT-CLASS-60-258			US-PATENT-CLASS-136-86			US-PATENT-CLASS-60-202
N71-22984*	c 07	US-PATENT-3,336,754	N71-23023*	c 15	US-PATENT-3,389,017	N71-23084*	c 10	US-PATENT-3,367,114
		NASA-CASE-XMS-04312			NASA-CASE-XMF-04042			NASA-CASE-XLA-01219
		US-PATENT-APPL-SN-521754			US-PATENT-APPL-SN-605518			US-PATENT-APPL-SN-402978
		US-PATENT-CLASS-343-708			US-PATENT-CLASS-55-204			US-PATENT-CLASS-332-1
N71-22985*	c 09	US-PATENT-3,384,895	N71-23024*	c 15	US-PATENT-3,397,512	N71-23085*	c 33	US-PATENT-3,366,894
		NASA-CASE-XMF-03934			NASA-CASE-XNP-01747			NASA-CASE-XFR-03802
		US-PATENT-APPL-SN-530958			US-PATENT-APPL-SN-413661			US-PATENT-APPL-SN-460877
		US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-251-148			US-PATENT-CLASS-73-190
N71-22986*	c 10	US-PATENT-3,379,885	N71-23025*	c 15	US-PATENT-3,341,169	N71-23086*	c 15	US-PATENT-3,367,182
		NASA-CASE-XMF-01892			NASA-CASE-XNP-08877			NASA-CASE-XMS-04533
		US-PATENT-APPL-SN-464878			US-PATENT-APPL-SN-574282			US-PATENT-APPL-SN-557016
		US-PATENT-CLASS-328-167			US-PATENT-CLASS-62-6			US-PATENT-CLASS-202-234
N71-22987*	c 09	US-PATENT-3,375,451	N71-23026*	c 07	US-PATENT-3,367,121	N71-23087*	c 14	US-PATENT-3,397,117
		NASA-CASE-XLE-04788			NASA-CASE-XNP-02791			NASA-CASE-XNP-03918
		US-PATENT-APPL-SN-537617			US-PATENT-APPL-SN-390251			US-PATENT-APPL-SN-510475
		US-PATENT-CLASS-313-352			US-PATENT-CLASS-178-6			US-PATENT-CLASS-73-88.5
N71-22988*	c 09	US-PATENT-3,396,303	N71-23027*	c 09	US-PATENT-3,383,461	N71-23088*	c 18	US-PATENT-3,388,590
		NASA-CASE-XGS-03304			NASA-CASE-XNP-01960			NASA-CASE-XNP-00597
		US-PATENT-APPL-SN-483886			US-PATENT-APPL-SN-438135			US-PATENT-APPL-SN-410325
		US-PATENT-CLASS-73-1			US-PATENT-CLASS-29-572			US-PATENT-CLASS-65-7
N71-22989*	c 14	US-PATENT-3,381,517	N71-23029*	c 10	US-PATENT-3,340,599	N71-23092*	c 14	US-PATENT-3,337,315
		NASA-CASE-XLA-01551			NASA-CASE-XGS-03427			NASA-CASE-XLA-01530
		US-PATENT-APPL-SN-422092			US-PATENT-APPL-SN-500446			US-PATENT-APPL-SN-420466
		US-PATENT-CLASS-73-190			US-PATENT-CLASS-307-265			US-PATENT-CLASS-188-1
N71-22990*	c 14	US-PATENT-3,382,714	N71-23030*	c 11	US-PATENT-3,383,524	N71-23093*	c 14	US-PATENT-3,337,004
		NASA-CASE-XMS-04201			NASA-CASE-XNP-03578			NASA-CASE-XLE-03280
		US-PATENT-APPL-SN-507254			US-PATENT-APPL-SN-445292			US-PATENT-APPL-SN-517156
		US-PATENT-CLASS-324-70			US-PATENT-CLASS-73-147			US-PATENT-CLASS-73-400
N71-22991*	c 14	US-PATENT-3,379,974	N71-23033*	c 10	US-PATENT-3,342,066	N71-23096*	c 05	US-PATENT-3,379,064
		NASA-CASE-XLA-01791			NASA-CASE-XNP-01318			NASA-CASE-XMS-06064
		US-PATENT-APPL-SN-462763			US-PATENT-APPL-SN-380965			US-PATENT-APPL-SN-563646
		US-PATENT-CLASS-250-227			US-PATENT-CLASS-340-174			US-PATENT-CLASS-2-14
N71-22992*	c 14	US-PATENT-3,397,318	N71-23036*	c 14	US-PATENT-3,388,387	N71-23097*	c 09	US-PATENT-3,378,851
		NASA-CASE-XGS-01023			NASA-CASE-XNP-01660			NASA-CASE-XNP-02140
		US-PATENT-APPL-SN-446131			US-PATENT-APPL-SN-578916			US-PATENT-APPL-SN-440036
		US-PATENT-CLASS-73-65			US-PATENT-CLASS-73-4			US-PATENT-CLASS-330-1

N71-23098*	c 07	US-PATENT-3,337,812	N71-23269*	c 14	US-PATENT-3,419,329	N71-23544*	c 10	US-PATENT-3,393,347
		NASA-CASE-XGS-00740			NASA-CASE-XLA-01584			NASA-CASE-XNP-05382
		US-PATENT-APPL-SN-353644			US-PATENT-APPL-SN-416943			US-PATENT-APPL-SN-536217
N71-23099*	c 10	US-PATENT-CLASS-325-305	N71-23270*	c 09	US-PATENT-CLASS-250-203	N71-23545*	c 09	US-PATENT-CLASS-332-19
		US-PATENT-3,341,778			US-PATENT-3,389,260			US-PATENT-3,393,380
		NASA-CASE-XNP-08875			NASA-CASE-XMS-04919			NASA-CASE-XMF-04367
N71-23159*	c 05	US-PATENT-APPL-SN-640455	N71-23271*	c 10	US-PATENT-APPL-SN-516155	N71-23548*	c 09	US-PATENT-APPL-SN-457874
		US-PATENT-CLASS-343-6.5			US-PATENT-CLASS-307-263			US-PATENT-CLASS-307-235
		US-PATENT-3,380,049			US-PATENT-3,417,266			US-PATENT-3,404,289
N71-23161*	c 05	NASA-CASE-XMF-06589	N71-23289*	c 21	NASA-CASE-XNP-00952	N71-23573*	c 09	NASA-CASE-XNP-06507
		US-PATENT-APPL-SN-543206			US-PATENT-APPL-SN-388967			US-PATENT-APPL-SN-605099
		US-PATENT-CLASS-5-82			US-PATENT-CLASS-317-148.5			US-PATENT-CLASS-333-98
N71-23174*	c 14	US-PATENT-3,343,180	N71-23292*	c 26	US-PATENT-3,417,298	N71-23598*	c 09	US-PATENT-3,419,827
		NASA-CASE-XAC-07043			NASA-CASE-XMF-01669			NASA-CASE-XGS-01418
		US-PATENT-APPL-SN-566397			US-PATENT-APPL-SN-399419			US-PATENT-APPL-SN-392969
N71-23175*	c 14	US-PATENT-CLASS-2-2.1	N71-23293*	c 28	US-PATENT-CLASS-74-5.47	N71-23599*	c 22	US-PATENT-CLASS-333-73
		US-PATENT-3,405,406			US-PATENT-3,415,126			US-PATENT-3,393,384
		NASA-CASE-XGS-02610			NASA-CASE-XLE-10715			NASA-CASE-XER-11019
N71-23185*	c 04	US-PATENT-APPL-SN-491054	N71-23295*	c 08	US-PATENT-APPL-SN-603397	N71-23654*	c 26	US-PATENT-APPL-SN-711971
		US-PATENT-CLASS-321-60			US-PATENT-CLASS-252-62.3			US-PATENT-CLASS-331-78
		US-PATENT-3,417,316			US-PATENT-3,409,554			US-PATENT-3,470,489
N71-23187*	c 03	NASA-CASE-XKS-03509	N71-23311*	c 09	NASA-CASE-XNP-06942	N71-23658*	c 18	NASA-CASE-XLE-01903
		US-PATENT-APPL-SN-566392			US-PATENT-APPL-SN-563651			US-PATENT-APPL-SN-466868
		US-PATENT-CLASS-356-166			US-PATENT-CLASS-60-202			US-PATENT-CLASS-310-4
N71-23188*	c 09	US-PATENT-3,414,358	N71-23315*	c 10	US-PATENT-3,412,559	N71-23662*	c 10	US-PATENT-3,393,330
		NASA-CASE-XAC-05422			NASA-CASE-XNP-04819			NASA-CASE-XLE-02798
		US-PATENT-APPL-SN-483885			US-PATENT-APPL-SN-502701			US-PATENT-APPL-SN-660571
N71-23189*	c 09	US-PATENT-CLASS-128-2.05	N71-23316*	c 09	US-PATENT-CLASS-340-146.2	N71-23663*	c 10	US-PATENT-CLASS-148-1.5
		US-PATENT-3,412,729			US-PATENT-3,390,378			US-PATENT-3,390,020
		NASA-CASE-XGS-03390			NASA-CASE-XGS-03632			NASA-CASE-XLE-02647
N71-23190*	c 09	US-PATENT-APPL-SN-551182	N71-23317*	c 05	US-PATENT-APPL-SN-502739	N71-23669*	c 10	US-PATENT-APPL-SN-430226
		US-PATENT-CLASS-136-89			US-PATENT-CLASS-307-260			US-PATENT-CLASS-220-9
		US-PATENT-3,419,433			US-PATENT-3,390,282			US-PATENT-3,392,864
N71-23191*	c 09	NASA-CASE-XMF-14301	N71-23336*	c 03	NASA-CASE-XLA-03356	N71-23698*	c 14	NASA-CASE-XGS-01118
		US-PATENT-APPL-SN-697341			US-PATENT-APPL-SN-536216			US-PATENT-APPL-SN-408442
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-307-234			US-PATENT-CLASS-235-154
N71-23190*	c 09	US-PATENT-3,470,446	N71-23316*	c 09	US-PATENT-3,448,290	N71-23663*	c 10	US-PATENT-3,399,299
		NASA-CASE-XNP-06028			NASA-CASE-XMS-09352			NASA-CASE-XKS-04631
		US-PATENT-APPL-SN-649356			US-PATENT-APPL-SN-564919			US-PATENT-APPL-SN-663180
N71-23190*	c 09	US-PATENT-CLASS-315-26	N71-23317*	c 05	US-PATENT-CLASS-323-22	N71-23669*	c 10	US-PATENT-CLASS-200-82
		US-PATENT-3,431,460			US-PATENT-3,417,321			US-PATENT-3,433,909
		NASA-CASE-XLE-04501			NASA-CASE-XMS-06061			NASA-CASE-XAC-10607
N71-23191*	c 09	US-PATENT-APPL-SN-522794	N71-23336*	c 03	US-PATENT-APPL-SN-605092	N71-23698*	c 14	US-PATENT-APPL-SN-694345
		US-PATENT-CLASS-313-231			US-PATENT-CLASS-307-260			US-PATENT-CLASS-331-111
		US-PATENT-3,413,510			US-PATENT-3,467,837			US-PATENT-3,470,495
N71-23225*	c 14	NASA-CASE-XMS-05890	N71-23354*	c 03	NASA-CASE-XGS-01513	N71-23699*	c 14	NASA-CASE-XGS-08259
		US-PATENT-APPL-SN-650166			US-PATENT-APPL-SN-502756			US-PATENT-APPL-SN-666551
		US-PATENT-CLASS-137-554			US-PATENT-CLASS-136-166			US-PATENT-CLASS-242-192
N71-23225*	c 14	US-PATENT-3,414,012	N71-23354*	c 03	US-PATENT-3,390,017	N71-23699*	c 14	US-PATENT-3,460,781
		NASA-CASE-XNP-04817			NASA-CASE-XLE-04535			NASA-CASE-XMF-10289
		US-PATENT-APPL-SN-516152			US-PATENT-APPL-SN-588671			US-PATENT-APPL-SN-674356
N71-23226*	c 14	US-PATENT-CLASS-73-12	N71-23365*	c 17	US-PATENT-CLASS-250-212	N71-23710*	c 18	US-PATENT-CLASS-324-72
		US-PATENT-3,412,598			US-PATENT-3,437,818			US-PATENT-3,470,466
		NASA-CASE-XNP-06509			NASA-CASE-XNP-03063			NASA-CASE-XLE-08511
N71-23227*	c 14	US-PATENT-APPL-SN-570095	N71-23401*	c 14	US-PATENT-APPL-SN-521994	N71-23723*	c 30	US-PATENT-APPL-SN-635972
		US-PATENT-CLASS-73-194			US-PATENT-CLASS-75-172			US-PATENT-CLASS-29-182.1
		US-PATENT-3,411,356			US-PATENT-3,413,115			US-PATENT-3,419,363
N71-23227*	c 14	NASA-CASE-XMF-06515	N71-23405*	c 07	NASA-CASE-XGS-03230	N71-23725*	c 14	US-PATENT-3,417,399
		US-PATENT-APPL-SN-548808			US-PATENT-APPL-SN-517158			US-PATENT-APPL-SN-665209
		US-PATENT-CLASS-73-432			US-PATENT-CLASS-250-83			US-PATENT-CLASS-73-133
N71-23230*	c 06	US-PATENT-3,408,870	N71-23443*	c 09	US-PATENT-3,419,992	N71-23726*	c 14	US-PATENT-3,460,381
		NASA-CASE-XMF-06409			NASA-CASE-XGS-01537			NASA-CASE-XMF-05224
		US-PATENT-APPL-SN-575930			US-PATENT-APPL-SN-432026			US-PATENT-APPL-SN-660842
N71-23239*	c 03	US-PATENT-CLASS-260-448.2	N71-23449*	c 03	US-PATENT-CLASS-325-163	N71-23755*	c 14	US-PATENT-CLASS-73-189
		US-PATENT-3,433,818			US-PATENT-3,417,332			US-PATENT-3,465,584
		NASA-CASE-XMF-08217			US-PATENT-3,472,698			NASA-CASE-XMF-04134
N71-23240*	c 14	US-PATENT-APPL-SN-688807	N71-23497*	c 01	US-PATENT-APPL-SN-491058	N71-23790*	c 14	US-PATENT-APPL-SN-610723
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-310-10			US-PATENT-CLASS-73-4
		US-PATENT-3,470,443			US-PATENT-CLASS-307-260			US-PATENT-3,472,059
N71-23248*	c 17	NASA-CASE-XLA-00941	N71-23499*	c 06	NASA-CASE-XLE-08569	N71-23797*	c 14	NASA-CASE-XAC-04885
		US-PATENT-APPL-SN-508873			US-PATENT-APPL-SN-641420			US-PATENT-APPL-SN-573432
		US-PATENT-CLASS-250-227			US-PATENT-CLASS-136-89			US-PATENT-CLASS-73-141
N71-23248*	c 17	US-PATENT-3,407,304	N71-23499*	c 06	US-PATENT-3,472,698	N71-23797*	c 14	US-PATENT-3,415,116
		NASA-CASE-XLE-03629			NASA-CASE-XLA-01486			NASA-CASE-XNP-06510
		US-PATENT-APPL-SN-554950			US-PATENT-APPL-SN-484485			US-PATENT-APPL-SN-562445
N71-23254*	c 15	US-PATENT-CLASS-75-170	N71-23500*	c 06	US-PATENT-CLASS-244-13	N71-23809*	c 15	US-PATENT-CLASS-250-203
		US-PATENT-3,415,643			US-PATENT-3,392,936			US-PATENT-3,417,247
		NASA-CASE-XFR-05302			NASA-CASE-XNP-03835			NASA-CASE-XMF-02330
N71-23255*	c 15	US-PATENT-APPL-SN-685463	N71-23525*	c 09	US-PATENT-APPL-SN-456874	N71-23810*	c 15	US-PATENT-APPL-SN-608944
		US-PATENT-CLASS-85-7			US-PATENT-CLASS-44-77			US-PATENT-CLASS-219-130
		US-PATENT-3,443,472			US-PATENT-CLASS-44-77			US-PATENT-3,469,069
N71-23256*	c 15	US-PATENT-3,393,059	N71-23527*	c 06	US-PATENT-3,393,059	N71-23811*	c 15	US-PATENT-3,466,243
		NASA-CASE-XMS-07487			NASA-CASE-XNP-03250			NASA-CASE-XNP-05297
		US-PATENT-APPL-SN-580365			US-PATENT-APPL-SN-485058			US-PATENT-APPL-SN-640584
N71-23267*	c 14	US-PATENT-CLASS-244-83	N71-23543*	c 10	US-PATENT-CLASS-260-85.5	N71-23811*	c 15	US-PATENT-CLASS-72-354
		US-PATENT-3,409,252			US-PATENT-3,419,537			US-PATENT-CLASS-72-354
		NASA-CASE-XMF-03290			NASA-CASE-XGS-02317			US-PATENT-CLASS-72-354
N71-23268*	c 14	US-PATENT-APPL-SN-479353	N71-23543*	c 10	US-PATENT-APPL-SN-576183	N71-23811*	c 15	US-PATENT-APPL-SN-640584
		US-PATENT-CLASS-53-22			US-PATENT-CLASS-328-61			US-PATENT-CLASS-72-354
		US-PATENT-3,415,032			US-PATENT-3,464,018			US-PATENT-CLASS-72-354

N71-23812*	c 15	US-PATENT-3,443,412 NASA-CASE-XMF-07808 US-PATENT-APPL-SN-684178 US-PATENT-CLASS-308-2 US-PATENT-3,463,563	N71-24232*	c 14	US-PATENT-3,434,855 NASA-CASE-XAC-04458 US-PATENT-APPL-SN-534975 US-PATENT-CLASS-73-400 US-PATENT-3,392,586	N71-24623*	c 05	US-PATENT-CLASS-324-77 US-PATENT-3,548,107 NASA-CASE-XMS-09635 US-PATENT-APPL-SN-586329 US-PATENT-CLASS-2-2.1 US-PATENT-3,516,091
N71-23815*	c 15	NASA-CASE-XMF-07069 US-PATENT-APPL-SN-672382 US-PATENT-CLASS-219-125 US-PATENT-3,469,068	N71-24233*	c 14	NASA-CASE-XGS-04478 US-PATENT-APPL-SN-566717 US-PATENT-CLASS-73-88.5 US-PATENT-3,460,378	N71-24624*	c 07	NASA-CASE-GSC-10131-1 US-PATENT-APPL-SN-754055 US-PATENT-CLASS-340-172.5 US-PATENT-3,546,684
N71-23816*	c 15	NASA-CASE-XLE-03803 US-PATENT-APPL-SN-505765 US-PATENT-CLASS-220-9 US-PATENT-3,392,865	N71-24234*	c 14	NASA-CASE-XMF-10968 US-PATENT-APPL-SN-644447 US-PATENT-CLASS-73-15.6 US-PATENT-3,469,437	N71-24625*	c 07	NASA-CASE-XMS-09610 US-PATENT-APPL-SN-766170 US-PATENT-CLASS-343-113 US-PATENT-3,540,054
N71-23817*	c 15	NASA-CASE-XLE-06773 US-PATENT-APPL-SN-646124 US-PATENT-CLASS-72-467 US-PATENT-3,469,436	N71-24276*	c 33	NASA-CASE-XLA-02059 US-PATENT-APPL-SN-576182 US-PATENT-CLASS-165-12 US-PATENT-3,406,742	N71-24633*	c 08	NASA-CASE-NPO-10567 US-PATENT-APPL-SN-679055 US-PATENT-CLASS-235-153 US-PATENT-3,517,171
N71-23828*	c 17	NASA-CASE-XMF-02303 US-PATENT-APPL-SN-453229 US-PATENT-CLASS-148-6.20 US-PATENT-3,416,975	N71-24285*	c 32	NASA-CASE-XMF-02392 US-PATENT-APPL-SN-596735 US-PATENT-CLASS-73-49.2 US-PATENT-3,399,574	N71-24650*	c 08	NASA-CASE-NPO-10150 US-PATENT-APPL-SN-660843 US-PATENT-CLASS-340-347 US-PATENT-3,537,103
N71-23912*	c 31	NASA-CASE-XMF-05941 US-PATENT-APPL-SN-653277 US-PATENT-CLASS-244-1 US-PATENT-3,443,773	N71-24315*	c 31	NASA-CASE-XLA-04901 US-PATENT-APPL-SN-586325 US-PATENT-CLASS-244-1 US-PATENT-3,405,887	N71-24679*	c 15	NASA-CASE-XNP-10475 US-PATENT-APPL-SN-763868 US-PATENT-CLASS-72-369 US-PATENT-3,546,917
N71-23968*	c 28	NASA-CASE-XLE-04857 US-PATENT-APPL-SN-621742 US-PATENT-CLASS-239-127.1 US-PATENT-3,460,759	N71-24321*	c 28	NASA-CASE-XNP-03692 US-PATENT-APPL-SN-640787 US-PATENT-CLASS-60-263 US-PATENT-3,443,384	N71-24681*	c 03	NASA-CASE-XLE-08569-2 US-PATENT-APPL-SN-829825 US-PATENT-CLASS-29-572 US-PATENT-3,541,679
N71-23971*	c 32	NASA-CASE-XAC-05632 US-PATENT-APPL-SN-568355 US-PATENT-CLASS-244-77 US-PATENT-3,412,961	N71-24583*	c 07	NASA-CASE-NPO-10096 US-PATENT-APPL-SN-730700 US-PATENT-CLASS-329-140 US-PATENT-3,533,001	N71-24692*	c 12	NASA-CASE-XFR-02007 US-PATENT-APPL-SN-378080 US-PATENT-CLASS-73-389 US-PATENT-3,273,399
N71-23976*	c 23	NASA-CASE-XLA-01987 US-PATENT-APPL-SN-542713 US-PATENT-CLASS-346-107 US-PATENT-3,392,403	N71-24595*	c 09	NASA-CASE-GSC-10021-1 US-PATENT-APPL-SN-790420 US-PATENT-CLASS-343-7.5 US-PATENT-3,540,045	N71-24693*	c 14	NASA-CASE-XMF-04415 US-PATENT-APPL-SN-644446 US-PATENT-CLASS-33-174 US-PATENT-3,360,864
N71-24035*	c 31	NASA-CASE-XLA-01027 US-PATENT-APPL-SN-494283 US-PATENT-CLASS-52-272 US-PATENT-3,416,274	N71-24596*	c 09	NASA-CASE-XNP-01306-2 US-PATENT-APPL-SN-684083 US-PATENT-CLASS-328-133 US-PATENT-3,509,475	N71-24694*	c 15	NASA-CASE-GSC-10306-1 US-PATENT-APPL-SN-789278 US-PATENT-CLASS-248-358 US-PATENT-3,537,672
N71-24042*	c 15	NASA-CASE-XNP-04731 US-PATENT-APPL-SN-534966 US-PATENT-CLASS-103-48 US-PATENT-3,367,271	N71-24597*	c 09	NASA-CASE-ARC-10132-1 US-PATENT-APPL-SN-759460 US-PATENT-CLASS-73-398 US-PATENT-3,545,275	N71-24695*	c 15	NASA-CASE-XNP-06936 US-PATENT-APPL-SN-640786 US-PATENT-CLASS-318-382 US-PATENT-3,487,281
N71-24043*	c 15	NASA-CASE-XKS-03338 US-PATENT-APPL-SN-547072 US-PATENT-CLASS-89-1.806 US-PATENT-3,415,156	N71-24599*	c 15	NASA-CASE-MS-12052-1 US-PATENT-APPL-SN-770371 US-PATENT-CLASS-254-150 US-PATENT-CLASS-254-173 US-PATENT-CLASS-254-186 US-PATENT-3,545,725	N71-24696*	c 15	NASA-CASE-NPO-10173 US-PATENT-APPL-SN-796360 US-PATENT-CLASS-310-101 US-PATENT-3,535,570
N71-24044*	c 15	NASA-CASE-XMF-06888 US-PATENT-APPL-SN-591000 US-PATENT-CLASS-62-40 US-PATENT-3,415,069	N71-24600*	c 15	NASA-CASE-XGS-08718 US-PATENT-APPL-SN-785611 US-PATENT-CLASS-244-1 US-PATENT-CLASS-244-150 US-PATENT-CLASS-74-2 US-PATENT-CLASS-89-1.5 US-PATENT-CLASS-9-9 US-PATENT-3,540,676	N71-24717*	c 09	NASA-CASE-XMF-08804 US-PATENT-APPL-SN-683606 US-PATENT-CLASS-324-181 US-PATENT-3,543,159
N71-24045*	c 15	NASA-CASE-XGS-04548 US-PATENT-APPL-SN-672383 US-PATENT-CLASS-74-100 US-PATENT-3,460,397	N71-24606*	c 05	NASA-CASE-XKS-10804 US-PATENT-APPL-SN-691909 US-PATENT-CLASS-35-17 US-PATENT-3,508,347	N71-24718*	c 03	NASA-CASE-MS-10960-1 US-PATENT-APPL-SN-751198 US-PATENT-CLASS-204-305 US-PATENT-3,547,801
N71-24046*	c 15	NASA-CASE-XLE-10337 US-PATENT-APPL-SN-594633 US-PATENT-CLASS-252-26 US-PATENT-3,391,080	N71-24607*	c 06	NASA-CASE-XNP-09699 US-PATENT-APPL-SN-711972 US-PATENT-CLASS-73-17 US-PATENT-3,546,920	N71-24719*	c 03	NASA-CASE-GSC-10487-1 US-PATENT-APPL-SN-828983 US-PATENT-CLASS-320-39 US-PATENT-3,541,422
N71-24047*	c 15	NASA-CASE-XGS-03120 US-PATENT-APPL-SN-485958 US-PATENT-CLASS-156-3 US-PATENT-3,470,043	N71-24612*	c 07	NASA-CASE-XMF-06092 US-PATENT-APPL-SN-550088 US-PATENT-CLASS-178-7.1 US-PATENT-3,470,318	N71-24725*	c 23	NASA-CASE-GSC-10188-1 US-PATENT-APPL-SN-791888 US-PATENT-CLASS-62-384 US-PATENT-3,545,226
N71-24074*	c 16	NASA-CASE-XLA-03375 US-PATENT-APPL-SN-512562 US-PATENT-CLASS-356-104 US-PATENT-3,446,558	N71-24613*	c 07	NASA-CASE-NPO-10851 US-PATENT-APPL-SN-805406 US-PATENT-CLASS-325-325 US-PATENT-3,551,816	N71-24728*	c 05	NASA-CASE-MS-12243-1 US-PATENT-APPL-SN-857445 US-PATENT-CLASS-244-1 US-PATENT-3,537,668
N71-24142*	c 17	NASA-CASE-XLE-06969 US-PATENT-APPL-SN-655675 US-PATENT-CLASS-148-126 US-PATENT-3,463,679	N71-24614*	c 07	NASA-CASE-XKS-09340 US-PATENT-APPL-SN-666555 US-PATENT-CLASS-343-703 US-PATENT-3,540,056	N71-24729*	c 05	NASA-CASE-MS-13282-1 US-PATENT-APPL-SN-8498 US-PATENT-CLASS-128-2.1 US-PATENT-3,548,812
N71-24145*	c 33	NASA-CASE-XLE-03432 US-PATENT-APPL-SN-559349 US-PATENT-CLASS-13-35 US-PATENT-3,409,730	N71-24618*	c 09	NASA-CASE-FRC-10029 US-PATENT-APPL-SN-760389 US-PATENT-CLASS-128-2.06 US-PATENT-3,547,105	N71-24730*	c 05	NASA-CASE-XMS-09637-1 US-PATENT-APPL-SN-785710 US-PATENT-CLASS-2-2.1 US-PATENT-3,537,107
N71-24147*	c 05	NASA-CASE-XMS-10269 US-PATENT-APPL-SN-590158 US-PATENT-CLASS-165-46 US-PATENT-3,425,486	N71-24621*	c 07	NASA-CASE-GSC-10118-1 US-PATENT-APPL-SN-783375 US-PATENT-CLASS-179-15 US-PATENT-CLASS-325-4 US-PATENT-CLASS-343-100 US-PATENT-3,546,386	N71-24736*	c 28	NASA-CASE-XLE-03157 US-PATENT-APPL-SN-591014 US-PATENT-CLASS-60-240 US-PATENT-3,408,816
N71-24164*	c 15	NASA-CASE-XLA-01494 US-PATENT-APPL-SN-499122 US-PATENT-CLASS-156-545 US-PATENT-3,416,988	N71-24622*	c 07	NASA-CASE-NPO-10388 US-PATENT-APPL-SN-725432 US-PATENT-CLASS-179-15	N71-24738*	c 05	NASA-CASE-ARC-10100-1 US-PATENT-APPL-SN-797058 US-PATENT-CLASS-128-24 US-PATENT-CLASS-128-25 US-PATENT-3,550,585
N71-24170*	c 16	NASA-CASE-XLA-04295 US-PATENT-APPL-SN-546149 US-PATENT-CLASS-356-107 US-PATENT-3,468,609	N71-24739*	c 06	NASA-CASE-ARC-10098-1 US-PATENT-APPL-SN-702967 US-PATENT-CLASS-260-2.5 US-PATENT-3,549,584	N71-24740*	c 06	NASA-CASE-XMF-03074 US-PATENT-APPL-SN-593595 US-PATENT-CLASS-260-72.5 US-PATENT-3,516,971
N71-24183*	c 18	NASA-CASE-XGS-04799 US-PATENT-APPL-SN-452944 US-PATENT-CLASS-106-84 US-PATENT-3,416,939	N71-24741*	c 07	NASA-CASE-NPO-10118			
N71-24184*	c 18	NASA-CASE-XNP-02139 US-PATENT-APPL-SN-430777 US-PATENT-CLASS-106-84						

		US-PATENT-APPL-SN-704465			US-PATENT-APPL-SN-698630	N71-24910*	c 15	NASA-CASE-ERC-10045
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-333-83			US-PATENT-APPL-SN-763685
		US-PATENT-3,541,314			US-PATENT-3,541,479			US-PATENT-CLASS-73-40.7
N71-24742*	c 07	NASA-CASE-NPO-10140	N71-24842*	c 09	NASA-CASE-MS-12209	N71-24911*	c 17	US-PATENT-3,548,636
		US-PATENT-APPL-SN-691737			US-PATENT-APPL-SN-881039			NASA-CASE-XLE-04946
		US-PATENT-CLASS-187-7.1			US-PATENT-CLASS-343-797			US-PATENT-APPL-SN-605093
		US-PATENT-3,541,250			US-PATENT-3,546,705			US-PATENT-CLASS-118-308
N71-24750*	c 31	NASA-CASE-XGS-01654	N71-24843*	c 09	NASA-CASE-XMF-06617			US-PATENT-3,472,202
		US-PATENT-APPL-SN-434148			US-PATENT-APPL-SN-656993	N71-24934*	c 18	NASA-CASE-NPO-10051
		US-PATENT-CLASS-102-50			US-PATENT-CLASS-324-71			US-PATENT-APPL-SN-711898
		US-PATENT-3,282,541			US-PATENT-3,541,439			US-PATENT-CLASS-73-38
N71-24798*	c 10	NASA-CASE-XLE-03061-1	N71-24844*	c 10	NASA-CASE-NPO-10169			US-PATENT-3,548,633
		US-PATENT-APPL-SN-632152			US-PATENT-APPL-SN-701733	N71-24948*	c 21	NASA-CASE-ERC-10090
		US-PATENT-CLASS-340-412			US-PATENT-CLASS-328-171			US-PATENT-APPL-SN-811542
		US-PATENT-3,546,694			US-PATENT-3,541,459			US-PATENT-CLASS-343-112
N71-24799*	c 10	NASA-CASE-XNP-06505	N71-24857*	c 23	NASA-CASE-XMS-06056-1			US-PATENT-3,550,129
		US-PATENT-APPL-SN-562933			US-PATENT-APPL-SN-532006	N71-24964*	c 11	NASA-CASE-NPO-10141
		US-PATENT-CLASS-307-254			US-PATENT-CLASS-350-189			US-PATENT-APPL-SN-673227
		US-PATENT-3,501,648			US-PATENT-3,472,577			US-PATENT-CLASS-62-55.5
N71-24800*	c 09	NASA-CASE-ERC-10075	N71-24858*	c 33	NASA-CASE-MFS-14253			US-PATENT-3,443,390
		US-PATENT-APPL-SN-775870			US-PATENT-APPL-SN-709622	N71-24984*	c 15	NASA-CASE-MFS-14971
		US-PATENT-CLASS-321-45			US-PATENT-CLASS-161-69			US-PATENT-APPL-SN-827579
		US-PATENT-3,539,905			US-PATENT-3,551,266			US-PATENT-CLASS-74-468
N71-24803*	c 09	NASA-CASE-NPO-10242	N71-24861*	c 10	NASA-CASE-XMF-05195			US-PATENT-3,541,875
		US-PATENT-APPL-SN-749181			US-PATENT-APPL-SN-785595	N71-24985*	c 11	NASA-CASE-KSC-10126
		US-PATENT-CLASS-307-88			US-PATENT-CLASS-318-599			US-PATENT-APPL-SN-845973
		US-PATENT-3,541,346			US-PATENT-3,523,228			US-PATENT-CLASS-73-15
N71-24804*	c 09	NASA-CASE-GSC-10299-1	N71-24862*	c 10	NASA-CASE-FRC-10010			US-PATENT-3,545,252
		US-PATENT-APPL-SN-836367			US-PATENT-APPL-SN-771937	N71-25139*	c 10	NASA-CASE-MFS-10068
		US-PATENT-CLASS-343-100			US-PATENT-CLASS-307-235			US-PATENT-APPL-SN-700541
		US-PATENT-3,540,050			US-PATENT-3,543,050			US-PATENT-CLASS-321-9
N71-24805*	c 09	NASA-CASE-XMF-06892	N71-24863*	c 10	NASA-CASE-XMF-02966			US-PATENT-3,487,288
		US-PATENT-APPL-SN-757875			US-PATENT-APPL-SN-560968	N71-25213*	c 28	NASA-CASE-GSC-10709-1
		US-PATENT-CLASS-318-318			US-PATENT-CLASS-324-70			US-PATENT-APPL-SN-791288
		US-PATENT-3,546,553			US-PATENT-3,406,336			US-PATENT-CLASS-60-202
N71-24806*	c 09	NASA-CASE-NPO-10198	N71-24864*	c 14	NASA-CASE-XLE-04503			US-PATENT-3,545,208
		US-PATENT-APPL-SN-723804			US-PATENT-APPL-SN-606463	N71-25351*	c 33	NASA-CASE-MFS-14023
		US-PATENT-CLASS-328-165			US-PATENT-CLASS-250-225			US-PATENT-APPL-SN-795217
		US-PATENT-3,550,023			US-PATENT-3,546,471			US-PATENT-CLASS-161-161
N71-24807*	c 09	NASA-CASE-MFS-14114-2	N71-24865*	c 15	NASA-CASE-XMF-05114-3			US-PATENT-CLASS-220-9
		US-PATENT-APPL-SN-854815			US-PATENT-APPL-SN-837378			US-PATENT-CLASS-52-249
		US-PATENT-CLASS-165-105			US-PATENT-CLASS-72-56			US-PATENT-CLASS-52-404
		US-PATENT-CLASS-165-107			US-PATENT-3,540,250			US-PATENT-CLASS-62-45
		US-PATENT-CLASS-165-138	N71-24868*	c 23	NASA-CASE-ERC-10001			US-PATENT-3,540,615
		US-PATENT-CLASS-310-4			US-PATENT-APPL-SN-712099	N71-25353*	c 33	NASA-CASE-MFS-20355
		US-PATENT-3,537,515			US-PATENT-CLASS-350-310			US-PATENT-APPL-SN-845974
N71-24808*	c 09	NASA-CASE-XNP-08880			US-PATENT-3,540,802			US-PATENT-CLASS-165-104
		US-PATENT-APPL-SN-605094	N71-24875*	c 15	NASA-CASE-XLA-06199			US-PATENT-CLASS-165-133
		US-PATENT-CLASS-333-98			US-PATENT-APPL-SN-702911			US-PATENT-CLASS-219-378
		US-PATENT-3,416,106			US-PATENT-CLASS-148-6.11			US-PATENT-CLASS-219-530
N71-24809*	c 14	NASA-CASE-XNP-08961			US-PATENT-3,540,942			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-661170	N71-24876*	c 33	NASA-CASE-XNP-05524			US-PATENT-3,548,930
		US-PATENT-CLASS-250-84			US-PATENT-APPL-SN-250567			US-PATENT-CLASS-244-113
		US-PATENT-3,487,216			US-PATENT-CLASS-165-2	N71-25360*	c 32	NASA-CASE-XLA-08530
N71-24813*	c 31	NASA-CASE-XAC-06029-1			US-PATENT-3,270,802			US-PATENT-APPL-SN-808577
		US-PATENT-APPL-SN-588651	N71-24890*	c 08	NASA-CASE-XKS-06167			US-PATENT-CLASS-73-90
		US-PATENT-CLASS-343-100			US-PATENT-APPL-SN-649076			US-PATENT-3,546,931
		US-PATENT-3,540,048			US-PATENT-CLASS-235-155	N71-25434*	c 31	NASA-CASE-MS-13047-1
N71-24828*	c 16	NASA-CASE-XAC-10770-1			US-PATENT-3,535,497			US-PATENT-APPL-SN-850586
		US-PATENT-APPL-SN-690997	N71-24891*	c 08	NASA-CASE-XNP-09759			US-PATENT-CLASS-244-1
		US-PATENT-CLASS-356-28			US-PATENT-APPL-SN-606462			US-PATENT-CLASS-244-113
		US-PATENT-3,547,540			US-PATENT-CLASS-235-92			US-PATENT-3,547,376
N71-24830*	c 17	NASA-CASE-XNP-04148			US-PATENT-3,541,312	N71-25490*	c 26	NASA-CASE-ERC-10088
		US-PATENT-APPL-SN-536210	N71-24892*	c 09	NASA-CASE-NPO-10716			US-PATENT-APPL-SN-760927
		US-PATENT-CLASS-204-38			US-PATENT-APPL-SN-851394			US-PATENT-CLASS-73-141
		US-PATENT-3,472,742			US-PATENT-CLASS-307-104			US-PATENT-3,537,305
N71-24831*	c 16	NASA-CASE-NPO-10548			US-PATENT-CLASS-317-123			US-PATENT-CLASS-244-138
		US-PATENT-APPL-SN-775072			US-PATENT-CLASS-317-148.5	N71-25555*	c 24	NASA-CASE-XNP-09469
		US-PATENT-CLASS-330-4			US-PATENT-3,549,955			US-PATENT-APPL-SN-645573
		US-PATENT-3,486,123	N71-24893*	c 09	NASA-CASE-ERC-10125			US-PATENT-CLASS-204-168
N71-24832*	c 16	NASA-CASE-ERC-10178			US-PATENT-APPL-SN-773029			US-PATENT-3,540,989
		US-PATENT-APPL-SN-800973			US-PATENT-CLASS-323-56	N71-25865*	c 10	NASA-CASE-KSC-10002
		US-PATENT-CLASS-331-94.5			US-PATENT-3,541,428			US-PATENT-APPL-SN-782956
		US-PATENT-3,550,034	N71-24895*	c 15	NASA-CASE-XLA-07473			US-PATENT-CLASS-178-69.5
N71-24833*	c 15	NASA-CASE-XMF-03793			US-PATENT-APPL-SN-839935			US-PATENT-3,567,861
		US-PATENT-APPL-SN-453225			US-PATENT-CLASS-318-265	N71-25866*	c 09	NASA-CASE-ARC-10003-1
		US-PATENT-CLASS-72-56			US-PATENT-3,546,552			US-PATENT-APPL-SN-717822
		US-PATENT-3,360,972	N71-24896*	c 15	NASA-CASE-ERC-10034			US-PATENT-CLASS-178-66
N71-24834*	c 15	NASA-CASE-XNP-05634			US-PATENT-APPL-SN-763706			US-PATENT-CLASS-179-100.2
		US-PATENT-APPL-SN-605096			US-PATENT-CLASS-250-43.5			US-PATENT-3,549,799
		US-PATENT-CLASS-73-95			US-PATENT-3,549,882	N71-25881*	c 18	NASA-CASE-XGS-05180
		US-PATENT-3,460,379	N71-24897*	c 15	NASA-CASE-XLA-03538			US-PATENT-APPL-SN-721607
N71-24835*	c 15	NASA-CASE-NPO-10123			US-PATENT-APPL-SN-749149			US-PATENT-CLASS-260-37
		US-PATENT-APPL-SN-731388			US-PATENT-CLASS-294-83			US-PATENT-3,567,677
		US-PATENT-CLASS-128-272			US-PATENT-3,508,779	N71-25882*	c 10	NASA-CASE-GSC-10022-1
		US-PATENT-CLASS-128-275			US-PATENT-3,503,935			US-PATENT-APPL-SN-785546
		US-PATENT-3,540,449	N71-24903*	c 15	NASA-CASE-MFS-20395			US-PATENT-CLASS-331-113
N71-24836*	c 15	NASA-CASE-XLE-08917-2			US-PATENT-APPL-SN-830715			US-PATENT-3,559,096
		US-PATENT-APPL-SN-852131			US-PATENT-CLASS-285-314	N71-25892*	c 14	NASA-CASE-XLA-04555-1
		US-PATENT-CLASS-72-60			US-PATENT-CLASS-285-317			US-PATENT-APPL-SN-594584
		US-PATENT-3,541,825			US-PATENT-CLASS-285-38			US-PATENT-CLASS-148-13
N71-24840*	c 07	NASA-CASE-NPO-10649			US-PATENT-3,545,792			US-PATENT-3,468,727
		US-PATENT-APPL-SN-795182	N71-24904*	c 09	NASA-CASE-MFS-20385	N71-25899*	c 10	NASA-CASE-LEW-10345-1
		US-PATENT-CLASS-325-113			US-PATENT-APPL-SN-853716			US-PATENT-APPL-SN-805298
		US-PATENT-3,541,450			US-PATENT-CLASS-310-10			US-PATENT-CLASS-137-81.5
N71-24841*	c 09	NASA-CASE-XNP-09771			US-PATENT-3,541,361			US-PATENT-CLASS-235-201

		US-PATENT-3,568,702			US-PATENT-3,564,401			US-PATENT-APPL-SN-719870
N71-25900*	c 10	NASA-CASE-ERC-10032	N71-26136*	c 14	NASA-CASE-XLA-01782			US-PATENT-CLASS-325-67
		US-PATENT-APPL-SN-757857			US-PATENT-APPL-SN-576792			US-PATENT-3,553,586
		US-PATENT-CLASS-333-30			US-PATENT-CLASS-73-15.6	N71-26293*	c 05	NASA-CASE-XFR-07658-1
		US-PATENT-CLASS-333-72			US-PATENT-3,472,060			US-PATENT-APPL-SN-586324
		US-PATENT-3,568,103	N71-26137*	c 14	NASA-CASE-LAR-10305			US-PATENT-CLASS-128-2.06
N71-25901*	c 14	NASA-CASE-XLA-02810			US-PATENT-APPL-SN-811037			US-PATENT-3,426,746
		US-PATENT-APPL-SN-764252			US-PATENT-CLASS-324-0.5	N71-26294*	c 15	NASA-CASE-XNP-02862-1
		US-PATENT-CLASS-250-43.5			US-PATENT-CLASS-324-58.5			US-PATENT-APPL-SN-556830
		US-PATENT-CLASS-250-83.3			US-PATENT-3,562,631			US-PATENT-CLASS-277-13
		US-PATENT-CLASS-340-233	N71-26142*	c 10	NASA-CASE-NPO-10302			US-PATENT-3,468,548
		US-PATENT-CLASS-340-285			US-PATENT-APPL-SN-848811	N71-26312*	c 15	NASA-CASE-XNP-01263-2
		US-PATENT-3,569,710			US-PATENT-CLASS-343-768			US-PATENT-APPL-SN-718279
N71-25903*	c 17	NASA-CASE-XLA-08966-1			US-PATENT-3,553,704			US-PATENT-CLASS-287-189.365
		US-PATENT-APPL-SN-570678	N71-26145*	c 15	NASA-CASE-FRC-10005			US-PATENT-3,481,638
		US-PATENT-CLASS-204-33			US-PATENT-APPL-SN-756266	N71-26326*	c 10	NASA-CASE-NPO-10143
		US-PATENT-3,468,765			US-PATENT-CLASS-33-189			US-PATENT-APPL-SN-692331
N71-25914*	c 16	NASA-CASE-XLA-03410			US-PATENT-3,562,919			US-PATENT-CLASS-58-24
		US-PATENT-APPL-SN-512561	N71-26148*	c 15	NASA-CASE-XMF-05114-2			US-PATENT-3,472,019
		US-PATENT-CLASS-250-199			US-PATENT-APPL-SN-837377	N71-26331*	c 10	NASA-CASE-XNP-10854
		US-PATENT-3,469,087			US-PATENT-CLASS-72-56			US-PATENT-APPL-SN-668248
N71-25917*	c 10	NASA-CASE-NPO-10595			US-PATENT-3,555,867			US-PATENT-CLASS-330-31
		US-PATENT-APPL-SN-771760	N71-26153*	c 18	NASA-CASE-XLE-03940			US-PATENT-3,482,179
		US-PATENT-CLASS-340-347			US-PATENT-APPL-SN-539255	N71-26333*	c 05	NASA-CASE-XMS-09652-1
		US-PATENT-3,569,956			US-PATENT-CLASS-148-126			US-PATENT-APPL-SN-618969
N71-25929*	c 06	NASA-CASE-NPO-10596			US-PATENT-3,472,709			US-PATENT-CLASS-2-6
		US-PATENT-APPL-SN-756381	N71-26154*	c 16	NASA-CASE-ERC-10020			US-PATENT-3,473,165
		US-PATENT-CLASS-260-2.5			US-PATENT-APPL-SN-709399	N71-26334*	c 10	NASA-CASE-XLA-02619
		US-PATENT-3,557,027			US-PATENT-CLASS-350-3.5			US-PATENT-APPL-SN-796691
N71-25950*	c 10	NASA-CASE-XGS-06226			US-PATENT-3,540,790			US-PATENT-CLASS-317-DIG.3
		US-PATENT-APPL-SN-676387	N71-26155*	c 18	NASA-CASE-LAR-10373-1			US-PATENT-CLASS-317-153
		US-PATENT-CLASS-331-113			US-PATENT-APPL-SN-761007			US-PATENT-CLASS-340-235
		US-PATENT-3,466,570			US-PATENT-CLASS-260-2.5			US-PATENT-3,575,641
N71-25975*	c 15	NASA-CASE-XMS-10660-1			US-PATENT-3,481,887	N71-26339*	c 10	NASA-CASE-NPO-10185
		US-PATENT-APPL-SN-797056	N71-26161*	c 14	NASA-CASE-XLA-08254			US-PATENT-APPL-SN-723805
		US-PATENT-CLASS-24-205.17			US-PATENT-APPL-SN-867843			US-PATENT-CLASS-73-432
		US-PATENT-3,469,289			US-PATENT-CLASS-73-12			US-PATENT-3,472,080
N71-25999*	c 09	NASA-CASE-XGS-05290			US-PATENT-CLASS-73-79	N71-26346*	c 15	NASA-CASE-XLE-05641-1
		US-PATENT-APPL-SN-754019			US-PATENT-3,576,127			US-PATENT-APPL-SN-605091
		US-PATENT-CLASS-310-168	N71-26162*	c 15	NASA-CASE-MSC-15474-1			US-PATENT-CLASS-72-61
		US-PATENT-CLASS-310-254			US-PATENT-APPL-SN-878731			US-PATENT-3,461,700
		US-PATENT-CLASS-318-138			US-PATENT-CLASS-24-263	N71-26374*	c 10	NASA-CASE-GSC-11367
		US-PATENT-CLASS-318-254			US-PATENT-3,564,564			US-PATENT-APPL-SN-675238
		US-PATENT-3,569,804	N71-26173*	c 28	NASA-CASE-LEW-10689-1			US-PATENT-CLASS-331-18
N71-26000*	c 09	NASA-CASE-XNP-08567			US-PATENT-APPL-SN-830978			US-PATENT-3,484,712
		US-PATENT-APPL-SN-640783			US-PATENT-CLASS-60-202	N71-26387*	c 12	NASA-CASE-XLA-05541
		US-PATENT-CLASS-307-88			US-PATENT-3,552,125			US-PATENT-APPL-SN-700986
		US-PATENT-3,466,459	N71-26181*	c 07	NASA-CASE-MSC-12223-1			US-PATENT-CLASS-73-301
N71-26002*	c 09	NASA-CASE-XMS-04213-1			US-PATENT-APPL-SN-839941			US-PATENT-3,473,379
		US-PATENT-APPL-SN-607484			US-PATENT-CLASS-179-1	N71-26414*	c 10	NASA-CASE-XMF-04958-1
		US-PATENT-CLASS-128-2.1			US-PATENT-3,555,192			US-PATENT-APPL-SN-448365
		US-PATENT-3,468,303	N71-26182*	c 09	NASA-CASE-NPO-10625			US-PATENT-CLASS-321-69
N71-26084*	c 03	NASA-CASE-LEW-11358			US-PATENT-APPL-SN-856415			US-PATENT-3,434,037
		US-PATENT-APPL-SN-787906			US-PATENT-CLASS-313-236	N71-26415*	c 10	NASA-CASE-NPO-10003
		US-PATENT-CLASS-136-6			US-PATENT-CLASS-313-237			US-PATENT-APPL-SN-638192
		US-PATENT-3,554,806			US-PATENT-CLASS-60-23			US-PATENT-CLASS-330-13
N71-26085*	c 10	NASA-CASE-GSC-10735-1			US-PATENT-3,562,575			US-PATENT-3,461,393
		US-PATENT-APPL-SN-863963	N71-26185*	c 15	NASA-CASE-MFS-14711	N71-26418*	c 10	NASA-CASE-XGS-04224
		US-PATENT-CLASS-321-2			US-PATENT-APPL-SN-774266			US-PATENT-APPL-SN-568364
		US-PATENT-3,559,031			US-PATENT-CLASS-55-75			US-PATENT-CLASS-340-174
N71-26092*	c 09	NASA-CASE-XNP-07477			US-PATENT-3,557,534			US-PATENT-3,483,535
		US-PATENT-APPL-SN-605098	N71-26189*	c 15	NASA-CASE-XLE-09527-2	N71-26434*	c 10	NASA-CASE-XNP-01466
		US-PATENT-CLASS-318-258			US-PATENT-APPL-SN-840870			US-PATENT-APPL-SN-487940
		US-PATENT-3,501,684			US-PATENT-CLASS-308-187			US-PATENT-CLASS-340-174
N71-26100*	c 18	NASA-CASE-XLA-04251			US-PATENT-3,561,828			US-PATENT-3,461,437
		US-PATENT-APPL-SN-657742	N71-26199*	c 14	NASA-CASE-NPO-10691	N71-26474*	c 14	NASA-CASE-XMF-03844-1
		US-PATENT-CLASS-117-104			US-PATENT-APPL-SN-816988			US-PATENT-APPL-SN-601229
		US-PATENT-3,553,002			US-PATENT-CLASS-73-61			US-PATENT-CLASS-95-44
N71-26101*	c 07	NASA-CASE-NPO-10231			US-PATENT-3,566,676			US-PATENT-3,472,140
		US-PATENT-APPL-SN-701767	N71-26206*	c 23	NASA-CASE-XGS-08269	N71-26475*	c 14	NASA-CASE-XNP-09701
		US-PATENT-CLASS-343-786			US-PATENT-APPL-SN-787393			US-PATENT-APPL-SN-584015
		US-PATENT-3,534,376			US-PATENT-CLASS-356-76			US-PATENT-CLASS-250-83.3
N71-26102*	c 07	NASA-CASE-XNP-06611			US-PATENT-3,554,647			US-PATENT-3,461,290
		US-PATENT-APPL-SN-593607	N71-26243*	c 15	NASA-CASE-MSC-10959	N71-26531*	c 10	NASA-CASE-GSC-10413
		US-PATENT-CLASS-178-6.6			US-PATENT-APPL-SN-725719			US-PATENT-APPL-SN-789043
		US-PATENT-3,474,192			US-PATENT-CLASS-188-1			US-PATENT-CLASS-317-20
N71-26103*	c 10	NASA-CASE-XNP-04623			US-PATENT-3,420,338			US-PATENT-CLASS-317-33
		US-PATENT-APPL-SN-510150	N71-26244*	c 14	NASA-CASE-XMS-06497			US-PATENT-3,555,361
		US-PATENT-CLASS-340-146.1			US-PATENT-APPL-SN-617778	N71-26537*	c 31	NASA-CASE-GSC-10556-1
		US-PATENT-3,474,413			US-PATENT-CLASS-324-115			NASA-CASE-GSC-10557-1
N71-26110*	c 02	NASA-CASE-LAR-10249-1			US-PATENT-3,464,012			US-PATENT-APPL-SN-808193
		US-PATENT-APPL-SN-835060	N71-26266*	c 14	NASA-CASE-XNP-09830			US-PATENT-CLASS-244-1
		US-PATENT-CLASS-244-42			US-PATENT-APPL-SN-632165			US-PATENT-CLASS-308-1
		US-PATENT-3,576,301			US-PATENT-CLASS-324-0.5			US-PATENT-CLASS-74-5.12
N71-26133*	c 09	NASA-CASE-MFS-20075			US-PATENT-3,474,328			US-PATENT-3,554,466
		US-PATENT-APPL-SN-835059	N71-26285*	c 18	NASA-CASE-MSC-12109	N71-26544*	c 10	NASA-CASE-NPO-10344
		US-PATENT-CLASS-317-101			US-PATENT-APPL-SN-889376			US-PATENT-APPL-SN-732921
		US-PATENT-CLASS-339-17			US-PATENT-CLASS-112-402			US-PATENT-CLASS-340-347
		US-PATENT-3,575,638			US-PATENT-CLASS-2-275			US-PATENT-3,566,396
N71-26134*	c 15	NASA-CASE-XKS-07953			US-PATENT-CLASS-2-81	N71-26546*	c 12	NASA-CASE-FRC-10022-1
		US-PATENT-APPL-SN-725405			US-PATENT-3,563,198			US-PATENT-APPL-SN-763729
		US-PATENT-CLASS-51-170	N71-26291*	c 07	NASA-CASE-HQN-10541-1			US-PATENT-CLASS-73-194
		US-PATENT-3,553,904			US-PATENT-APPL-SN-494739			US-PATENT-3,555,898
N71-26135*	c 14	NASA-CASE-XAC-03740			US-PATENT-CLASS-350-96	N71-26577*	c 10	NASA-CASE-NPO-10214
		US-PATENT-APPL-SN-480211			US-PATENT-3,556,634			US-PATENT-APPL-SN-704299
		US-PATENT-CLASS-324-43	N71-26292*	c 07	NASA-CASE-XKS-10543			US-PATENT-CLASS-325-41

N71-26579*	c 07	US-PATENT-3,566,268	US-PATENT-APPL-SN-804172	N71-27094*	c 28	NASA-CASE-GSC-10710-1
		NASA-CASE-XMS-06740-1	US-PATENT-CLASS-313-63			US-PATENT-APPL-SN-828909
		US-PATENT-APPL-SN-554277	US-PATENT-CLASS-315-111			US-PATENT-CLASS-73-117.4
N71-26611*	c 15	US-PATENT-CLASS-178-6	US-PATENT-CLASS-60-202	N71-27095*	c 28	US-PATENT-3,572,104
		US-PATENT-3,470,313	US-PATENT-3,576,107			NASA-CASE-MFS-20325
		NASA-CASE-MS-11817-1	NASA-CASE-KXS-05932			US-PATENT-APPL-SN-840176
N71-26626*	c 10	US-PATENT-APPL-SN-7668	US-PATENT-APPL-SN-752729	N71-27126*	c 10	US-PATENT-CLASS-244-1
		US-PATENT-CLASS-165-44	US-PATENT-CLASS-240-11.2			US-PATENT-3,572,610
		US-PATENT-CLASS-165-86	US-PATENT-CLASS-240-11.4			NASA-CASE-LEW-10233
N71-26627*	c 14	US-PATENT-CLASS-188-88	US-PATENT-CLASS-240-51.11	N71-27135*	c 15	US-PATENT-APPL-SN-750787
		US-PATENT-CLASS-244-1	US-PATENT-CLASS-313-22			US-PATENT-CLASS-307-253
		US-PATENT-CLASS-244-57	US-PATENT-3,564,234			US-PATENT-CLASS-307-300
N71-26635*	c 15	US-PATENT-3,563,307	NASA-CASE-MFS-20240	N71-27136*	c 10	US-PATENT-3,566,158
		NASA-CASE-GSC-10891-1	US-PATENT-APPL-SN-825259			NASA-CASE-HON-10541-2
		US-PATENT-APPL-SN-568620	US-PATENT-CLASS-356-203			US-PATENT-APPL-SN-822088
N71-26642*	c 28	US-PATENT-CLASS-307-53	US-PATENT-3,563,668	N71-27137*	c 10	US-PATENT-CLASS-219-121
		US-PATENT-3,480,789	NASA-CASE-XGS-11177			US-PATENT-CLASS-331-94.5
		NASA-CASE-MFS-14017	US-PATENT-APPL-SN-828921			US-PATENT-3,571,555
N71-26654*	c 23	US-PATENT-APPL-SN-762956	US-PATENT-CLASS-317-33	N71-27146*	c 15	NASA-CASE-GSC-10065-1
		US-PATENT-CLASS-248-183	US-PATENT-CLASS-317-9			US-PATENT-APPL-SN-808462
		US-PATENT-CLASS-308-9	US-PATENT-3,571,656			US-PATENT-CLASS-318-571
N71-26672*	c 14	US-PATENT-3,559,937	NASA-CASE-MFS-20261	N71-27147*	c 15	US-PATENT-CLASS-318-653
		NASA-CASE-ERC-10022	US-PATENT-APPL-SN-845990			US-PATENT-3,568,028
		US-PATENT-APPL-SN-874733	US-PATENT-CLASS-1			NASA-CASE-XNP-06234
N71-26673*	c 15	US-PATENT-CLASS-74-424.8	US-PATENT-CLASS-141-258	N71-27169*	c 15	US-PATENT-APPL-SN-723827
		US-PATENT-CLASS-74-89.15	US-PATENT-CLASS-222-137			US-PATENT-CLASS-235-92
		US-PATENT-3,576,135	US-PATENT-CLASS-222-49			US-PATENT-CLASS-328-49
N71-26674*	c 19	NASA-CASE-LEW-10106-1	US-PATENT-3,568,885	N71-27170*	c 18	US-PATENT-3,567,913
		US-PATENT-APPL-SN-758390	NASA-CASE-LAR-10083-1			NASA-CASE-LAR-10193-1
		US-PATENT-CLASS-60-202	US-PATENT-APPL-SN-837825			US-PATENT-APPL-SN-794968
N71-26678*	c 09	US-PATENT-3,552,124	US-PATENT-CLASS-73-147	N71-27178*	c 16	US-PATENT-CLASS-188-1
		NASA-CASE-NPO-10467	US-PATENT-3,572,112			US-PATENT-CLASS-188-103
		US-PATENT-APPL-SN-798277	NASA-CASE-GSC-11139			US-PATENT-3,568,805
N71-26681*	c 32	US-PATENT-CLASS-62-514	US-PATENT-APPL-SN-756511	N71-27184*	c 15	NASA-CASE-MS-12121-1
		US-PATENT-3,564,866	US-PATENT-CLASS-307-234			US-PATENT-APPL-SN-783374
		NASA-CASE-ERC-10033	US-PATENT-CLASS-307-246			US-PATENT-CLASS-91-390
N71-26688*	c 09	US-PATENT-APPL-SN-801660	US-PATENT-CLASS-307-273	N71-27185*	c 14	US-PATENT-CLASS-91-461
		US-PATENT-CLASS-73-49.3	US-PATENT-CLASS-328-120			US-PATENT-3,563,135
		US-PATENT-3,559,460	US-PATENT-CLASS-330-30			NASA-CASE-LAR-10106-1
N71-26701*	c 09	NASA-CASE-XAC-09489-1	US-PATENT-3,569,744	N71-27186*	c 14	US-PATENT-APPL-SN-810575
		US-PATENT-APPL-SN-694246	NASA-CASE-XNP-09770-3			US-PATENT-CLASS-188-1
		US-PATENT-CLASS-356-154	US-PATENT-APPL-SN-863967			US-PATENT-CLASS-310-51
N71-26705*	c 07	US-PATENT-3,565,530	US-PATENT-CLASS-74-18.2	N71-27191*	c 07	US-PATENT-3,566,993
		NASA-CASE-XGS-04173	US-PATENT-3,574,286			NASA-CASE-XMF-02221
		US-PATENT-APPL-SN-658964	NASA-CASE-ERC-10113			US-PATENT-APPL-SN-430192
N71-26706*	c 15	US-PATENT-CLASS-350-285	US-PATENT-APPL-SN-865811	N71-27210*	c 08	US-PATENT-CLASS-252-301.2
		US-PATENT-3,560,081	US-PATENT-CLASS-323-48			US-PATENT-3,567,651
		NASA-CASE-ERC-10013	US-PATENT-CLASS-323-60			NASA-CASE-HON-10541-4
N71-26721*	c 15	US-PATENT-APPL-SN-802972	US-PATENT-3,571,699	N71-27214*	c 15	US-PATENT-APPL-SN-822090
		US-PATENT-CLASS-29-25.18	NASA-CASE-MS-12205-1			US-PATENT-CLASS-250-199
		US-PATENT-3,562,881	US-PATENT-APPL-SN-882577			US-PATENT-3,575,602
N71-26722*	c 23	NASA-CASE-LAR-10098	US-PATENT-CLASS-325-16	N71-27215*	c 14	NASA-CASE-XNP-08124
		US-PATENT-APPL-SN-677475	US-PATENT-CLASS-325-23			US-PATENT-APPL-SN-697075
		US-PATENT-CLASS-73-71.4	US-PATENT-CLASS-325-369			US-PATENT-CLASS-75-63
N71-26726*	c 03	US-PATENT-3,564,906	US-PATENT-CLASS-343-100	N71-27223*	c 09	US-PATENT-3,563,727
		NASA-CASE-NPO-10331	US-PATENT-CLASS-343-117			NASA-CASE-NPO-10556
		US-PATENT-APPL-SN-757625	US-PATENT-CLASS-343-176			US-PATENT-APPL-SN-796405
N71-26727*	c 18	US-PATENT-CLASS-118-49.5	US-PATENT-3,568,197	N71-27232*	c 09	US-PATENT-CLASS-73-71.6
		US-PATENT-CLASS-204-298	NASA-CASE-XLA-07828			US-PATENT-3,572,089
		US-PATENT-3,556,048	US-PATENT-APPL-SN-770209			NASA-CASE-XMF-03968
N71-26733*	c 17	US-PATENT-3,556,048	US-PATENT-CLASS-318-20.105	N71-27233*	c 09	US-PATENT-APPL-SN-719029
		NASA-CASE-LAR-10121-1	US-PATENT-CLASS-325-151.11			US-PATENT-CLASS-174-110.3
		US-PATENT-APPL-SN-766244	US-PATENT-CLASS-340-347DA			US-PATENT-CLASS-324-65
N71-26737*	c 17	US-PATENT-CLASS-18-6	US-PATENT-3,573,797	N71-27234*	c 15	US-PATENT-CLASS-340-227
		US-PATENT-3,562,857	NASA-CASE-MS-13276-1			US-PATENT-CLASS-60-35.6
		NASA-CASE-GSC-10216-1	US-PATENT-APPL-SN-880272			US-PATENT-3,569,828
N71-26742*	c 03	US-PATENT-CLASS-331-94.5	US-PATENT-CLASS-219-505	N71-27235*	c 14	NASA-CASE-MFS-20068
		US-PATENT-3,555,455	US-PATENT-3,575,585			US-PATENT-APPL-SN-797795
		NASA-CASE-XNP-03413	NASA-CASE-XKS-07814			US-PATENT-CLASS-174-28
N71-26747*	c 06	US-PATENT-APPL-SN-640456	US-PATENT-APPL-SN-672384	N71-27236*	c 14	US-PATENT-CLASS-333-95
		US-PATENT-CLASS-156-212	US-PATENT-CLASS-182-10			US-PATENT-CLASS-333-96
		US-PATENT-3,565,719	US-PATENT-CLASS-188-65.5			US-PATENT-CLASS-343-884
N71-26754*	c 06	US-PATENT-3,565,719	US-PATENT-3,568,795	N71-27237*	c 08	US-PATENT-3,569,875
		NASA-CASE-XNP-09451	NASA-CASE-NPO-10796			NASA-CASE-GSC-10097-1
		US-PATENT-APPL-SN-713162	US-PATENT-APPL-SN-815760			US-PATENT-APPL-SN-762957
N71-26757*	c 18	US-PATENT-CLASS-23-253	US-PATENT-CLASS-220-46	N71-27238*	c 15	US-PATENT-APPL-SN-762957
		US-PATENT-3,560,161	US-PATENT-3,568,874			US-PATENT-CLASS-179-100.2
		NASA-CASE-XMF-07770-2	NASA-CASE-NPO-10755			US-PATENT-CLASS-29-603
N71-26772*	c 18	US-PATENT-APPL-SN-711903	US-PATENT-APPL-SN-816733	N71-27239*	c 15	US-PATENT-CLASS-340-174.1
		US-PATENT-CLASS-106-296	US-PATENT-CLASS-417-50			US-PATENT-3,566,045
		US-PATENT-3,576,656	US-PATENT-3,567,339			NASA-CASE-XLA-08911
N71-26773*	c 17	NASA-CASE-XNP-04262-2	NASA-CASE-XLA-08967	N71-27240*	c 15	US-PATENT-APPL-SN-777764
		US-PATENT-APPL-SN-684894	US-PATENT-APPL-SN-837830			US-PATENT-CLASS-219-229
		US-PATENT-CLASS-75-66	US-PATENT-CLASS-244-90			US-PATENT-CLASS-228-53
N71-26774*	c 14	US-PATENT-3,565,607	US-PATENT-3,570,789	N71-27241*	c 14	US-PATENT-3,575,336
		NASA-CASE-ERC-11020	NASA-CASE-ERC-10044-1			NASA-CASE-LAR-10204
		US-PATENT-APPL-SN-686248	US-PATENT-APPL-SN-811892			US-PATENT-APPL-SN-766245
N71-26779*	c 28	US-PATENT-CLASS-325-363	US-PATENT-CLASS-250-43.5R	N71-27242*	c 14	US-PATENT-CLASS-235-92
		US-PATENT-3,564,420	US-PATENT-CLASS-250-83.6R			US-PATENT-CLASS-356-106
		NASA-CASE-XLA-04126	US-PATENT-CLASS-324-33			US-PATENT-3,572,935
N71-26781*	c 28	US-PATENT-APPL-SN-467820	US-PATENT-3,575,597	N71-27243*	c 09	NASA-CASE-NPO-10607
		US-PATENT-CLASS-102-101	NASA-CASE-MFS-13929			US-PATENT-APPL-SN-799353
		US-PATENT-CLASS-264-3	US-PATENT-APPL-SN-779847			US-PATENT-CLASS-250-83
N71-26788*	c 14	US-PATENT-CLASS-86-1	US-PATENT-CLASS-152-225	N71-27244*	c 14	US-PATENT-CLASS-317-230
		US-PATENT-CLASS-86-20.2	US-PATENT-CLASS-152-250			US-PATENT-CLASS-317-231
		US-PATENT-3,570,364	US-PATENT-3,568,748			US-PATENT-CLASS-317-238
N71-26789*	c 28	NASA-CASE-LEW-10210-1				US-PATENT-3,568,010

N71-27233*	c 07	NASA-CASE-GSC-10220-1 US-PATENT-APPL-SN-759256 US-PATENT-CLASS-343-777 US-PATENT-CLASS-343-786 US-PATENT-CLASS-343-799 US-PATENT-CLASS-343-840 US-PATENT-CLASS-343-854 US-PATENT-3,569,976	N71-27407*	c 14	NASA-CASE-GSC-10376-1 US-PATENT-APPL-SN-806226 US-PATENT-CLASS-307-126 US-PATENT-CLASS-323-20 US-PATENT-3,566,143	N71-28729*	c 18	NASA-CASE-LEW-10219-1 US-PATENT-APPL-SN-785780 US-PATENT-CLASS-148-126 US-PATENT-3,579,390
N71-27234*	c 05	NASA-CASE-XFR-07172 US-PATENT-APPL-SN-720041 US-PATENT-CLASS-128-205 US-PATENT-3,563,232	N71-27432*	c 15	NASA-CASE-NPO-10808 US-PATENT-APPL-SN-808192 US-PATENT-CLASS-60-243 US-PATENT-3,568,447	N71-28739*	c 10	NASA-CASE-XNP-01068 US-PATENT-APPL-SN-375680 US-PATENT-CLASS-307-88.5 US-PATENT-3,271,594
N71-27254*	c 06	NASA-CASE-NPO-10768 US-PATENT-APPL-SN-770398 US-PATENT-CLASS-260-615 US-PATENT-3,574,770	N71-27585*	c 28	NASA-CASE-MFS-20130 US-PATENT-APPL-SN-809822 US-PATENT-CLASS-244-4 US-PATENT-3,570,785	N71-28740*	c 15	NASA-CASE-XLA-09346 US-PATENT-APPL-SN-820964 US-PATENT-CLASS-356-150 US-PATENT-CLASS-356-152 US-PATENT-CLASS-356-153 US-PATENT-CLASS-73-147 US-PATENT-3,583,815
N71-27255*	c 08	NASA-CASE-NPO-12107 US-PATENT-APPL-SN-555189 US-PATENT-CLASS-179-100.2 US-PATENT-CLASS-340-146.1 US-PATENT-CLASS-340-172.5 US-PATENT-3,571,801	N71-27754*	c 15	NASA-CASE-ARC-10131-1 US-PATENT-APPL-SN-808576 US-PATENT-CLASS-60-51 US-PATENT-CLASS-91-361 US-PATENT-CLASS-91-390 US-PATENT-CLASS-91-448 US-PATENT-3,568,572	N71-28741*	c 12	NASA-CASE-XLE-09341 US-PATENT-APPL-SN-780065 US-PATENT-CLASS-137-81.5 US-PATENT-3,583,419
N71-27271*	c 10	NASA-CASE-XLA-03893 US-PATENT-APPL-SN-779024 US-PATENT-CLASS-331-109 US-PATENT-CLASS-331-117 US-PATENT-CLASS-331-177 US-PATENT-CLASS-332-30 US-PATENT-3,569,866	N71-27862*	c 33	NASA-CASE-MFS-14114 US-PATENT-APPL-SN-706013 US-PATENT-CLASS-310-4 US-PATENT-3,535,562	N71-28747*	c 17	NASA-CASE-XNP-08881 US-PATENT-APPL-SN-732922 US-PATENT-CLASS-161-89 US-PATENT-3,579,412
N71-27272*	c 10	NASA-CASE-XLA-08799 US-PATENT-APPL-SN-668242 US-PATENT-CLASS-340-150 US-PATENT-CLASS-340-164 US-PATENT-CLASS-340-166 US-PATENT-CLASS-340-213 US-PATENT-CLASS-340-403 US-PATENT-3,571,800	N71-28421*	c 09	NASA-CASE-NPO-10412 US-PATENT-APPL-SN-768470 US-PATENT-CLASS-310-4 US-PATENT-3,578,992	N71-28759*	c 22	NASA-CASE-LEW-10250-1 US-PATENT-APPL-SN-732455 US-PATENT-CLASS-176-45 US-PATENT-3,574,057
N71-27323*	c 14	NASA-CASE-NPO-10810 US-PATENT-APPL-SN-805405 US-PATENT-CLASS-250-83.3 US-PATENT-CLASS-73-355 US-PATENT-3,566,122	N71-28429*	c 07	NASA-CASE-MSC-13201-1 US-PATENT-APPL-SN-789903 US-PATENT-CLASS-332-29 US-PATENT-CLASS-332-30 US-PATENT-3,579,147	N71-28779*	c 11	NASA-CASE-XNP-00250 US-PATENT-APPL-SN-212497 US-PATENT-CLASS-181-5 US-PATENT-3,260,326
N71-27324*	c 21	NASA-CASE-GSC-10555-1 US-PATENT-APPL-SN-785620 US-PATENT-CLASS-244-1 US-PATENT-3,567,155	N71-28430*	c 07	NASA-CASE-GSC-10668-1 US-PATENT-APPL-SN-743525 US-PATENT-CLASS-307-296 US-PATENT-CLASS-325-185 US-PATENT-CLASS-330-124 US-PATENT-CLASS-330-200 US-PATENT-CLASS-330-40 US-PATENT-3,577,092	N71-28783*	c 10	NASA-CASE-XMS-02182 US-PATENT-APPL-SN-516153 US-PATENT-CLASS-317-100 US-PATENT-3,317,797
N71-27325*	c 14	NASA-CASE-GSC-10441-1 US-PATENT-APPL-SN-782544 US-PATENT-CLASS-324-43 US-PATENT-3,571,700	N71-28465*	c 15	NASA-CASE-ERC-10097 US-PATENT-APPL-SN-797059 US-PATENT-CLASS-308-170 US-PATENT-3,583,777	N71-28807*	c 06	NASA-CASE-XMF-08674 US-PATENT-APPL-SN-617775 US-PATENT-CLASS-260-47 US-PATENT-3,370,039
N71-27332*	c 12	NASA-CASE-NPO-10416 US-PATENT-APPL-SN-754020 US-PATENT-CLASS-137-81.5 US-PATENT-3,570,513	N71-28467*	c 15	NASA-CASE-NPO-10646 US-PATENT-APPL-SN-813488 US-PATENT-CLASS-64-18 US-PATENT-3,574,277	N71-28808*	c 06	NASA-CASE-XNP-04023 US-PATENT-APPL-SN-470902 US-PATENT-CLASS-260-429 US-PATENT-3,396,184
N71-27334*	c 14	NASA-CASE-ERC-10087 US-PATENT-APPL-SN-738315 US-PATENT-CLASS-29-588 US-PATENT-3,566,459	N71-28468*	c 09	NASA-CASE-ARC-10137-1 US-PATENT-APPL-SN-799013 US-PATENT-CLASS-307-265 US-PATENT-CLASS-307-273 US-PATENT-CLASS-307-288 US-PATENT-CLASS-328-207 US-PATENT-3,584,311	N71-28809*	c 07	NASA-CASE-XGS-02290 US-PATENT-APPL-SN-544895 US-PATENT-CLASS-343-771 US-PATENT-3,417,400
N71-27338*	c 10	NASA-CASE-KSC-10020 US-PATENT-APPL-SN-817482 US-PATENT-CLASS-324-103 US-PATENT-CLASS-324-107 US-PATENT-CLASS-324-133 US-PATENT-CLASS-340-248 US-PATENT-3,571,707	N71-28554*	c 16	NASA-CASE-XGS-10518 US-PATENT-APPL-SN-764470 US-PATENT-CLASS-335-216 US-PATENT-3,541,486	N71-28810*	c 09	NASA-CASE-XNP-03916 US-PATENT-APPL-SN-535304 US-PATENT-CLASS-331-113 US-PATENT-3,325,749
N71-27341*	c 07	NASA-CASE-NPO-10343 US-PATENT-APPL-SN-750786 US-PATENT-CLASS-178-7.1 US-PATENT-CLASS-178-7.3 US-PATENT-3,566,027	N71-28579*	c 03	NASA-CASE-LEW-11359 US-PATENT-APPL-SN-787911 US-PATENT-CLASS-136-83 US-PATENT-3,573,986	N71-28849*	c 28	NASA-CASE-XMS-04826 US-PATENT-APPL-SN-521755 US-PATENT-CLASS-60-258 US-PATENT-3,318,096
N71-27363*	c 06	NASA-CASE-HQN-10364 US-PATENT-APPL-SN-713616 US-PATENT-CLASS-260-2 US-PATENT-3,563,918	N71-28582*	c 15	NASA-CASE-LEW-10278-1 US-PATENT-APPL-SN-760928 US-PATENT-CLASS-117-224 US-PATENT-3,573,977	N71-28850*	c 28	NASA-CASE-XNP-01954 US-PATENT-APPL-SN-372730 US-PATENT-CLASS-313-230 US-PATENT-3,328,624
N71-27364*	c 09	NASA-CASE-ERC-10065 US-PATENT-APPL-SN-777818 US-PATENT-CLASS-321-61 US-PATENT-CLASS-321-64 US-PATENT-CLASS-322-32 US-PATENT-3,571,693	N71-28618*	c 09	NASA-CASE-ERC-10098 US-PATENT-APPL-SN-779169 US-PATENT-CLASS-178-5.2RF US-PATENT-CLASS-178-54CF US-PATENT-CLASS-178-54PE US-PATENT-3,582,960	N71-28851*	c 31	NASA-CASE-XMS-06162 US-PATENT-APPL-SN-610724 US-PATENT-CLASS-244-138 US-PATENT-3,330,510
N71-27365*	c 10	NASA-CASE-NPO-10251 US-PATENT-APPL-SN-774265 US-PATENT-CLASS-35-19 US-PATENT-3,570,143	N71-28619*	c 05	NASA-CASE-ARC-10153 US-PATENT-APPL-SN-783377 US-PATENT-CLASS-104-1 US-PATENT-CLASS-104-139 US-PATENT-CLASS-119-96 US-PATENT-CLASS-238-1 US-PATENT-CLASS-248-361 US-PATENT-CLASS-272-70 US-PATENT-CLASS-35-29 US-PATENT-3,583,322	N71-28852*	c 33	NASA-CASE-XNP-01310 US-PATENT-APPL-SN-379771 US-PATENT-CLASS-60-266 US-PATENT-3,279,193
N71-27366*	c 10	NASA-CASE-GSC-10114-1 US-PATENT-APPL-SN-796370 US-PATENT-CLASS-317-33 US-PATENT-CLASS-321-12 US-PATENT-3,571,662	N71-28620*	c 06	NASA-CASE-NPO-10701 US-PATENT-APPL-SN-763355 US-PATENT-CLASS-260-47 US-PATENT-3,576,786	N71-28859*	c 10	NASA-CASE-XNP-01107 US-PATENT-APPL-SN-384010 US-PATENT-CLASS-330-51 US-PATENT-3,389,346
N71-27372*	c 15	NASA-CASE-NPO-10070 US-PATENT-APPL-SN-780064 US-PATENT-CLASS-23-259 US-PATENT-3,565,584	N71-28629*	c 11	NASA-CASE-KSC-10198 US-PATENT-APPL-SN-845971 US-PATENT-CLASS-73-15 US-PATENT-CLASS-73-432 US-PATENT-3,578,756	N71-28860*	c 10	NASA-CASE-MSC-13492-1 US-PATENT-APPL-SN-53156 US-PATENT-CLASS-307-215 US-PATENT-CLASS-307-265 US-PATENT-CLASS-307-273 US-PATENT-CLASS-328-207 US-PATENT-CLASS-328-92 US-PATENT-3,577,014
N71-27397*	c 18	NASA-CASE-XNP-02500 US-PATENT-APPL-SN-508169 US-PATENT-CLASS-324-58.5	N71-28691*	c 09	NASA-CASE-MFS-13687	N71-28863*	c 14	NASA-CASE-ERC-10014 US-PATENT-APPL-SN-815367 US-PATENT-CLASS-250-41.9 US-PATENT-CLASS-250-49.5 US-PATENT-3,567,927
						N71-28886*	c 09	NASA-CASE-MFS-14610 US-PATENT-APPL-SN-885571 US-PATENT-CLASS-318-317 US-PATENT-CLASS-318-331 US-PATENT-CLASS-318-345 US-PATENT-CLASS-318-504 US-PATENT-3,573,583
						N71-28892*	c 33	NASA-CASE-XMF-05046 US-PATENT-APPL-SN-559350

		US-PATENT-CLASS-62-45		US-PATENT-APPL-SN-838630	N71-29128*	c 02	NASA-CASE-XAC-00048	
		US-PATENT-3,365,897		US-PATENT-CLASS-250-219			US-PATENT-APPL-SN-765264	
N71-28900*	c 07	NASA-CASE-XNP-02389		US-PATENT-CLASS-356-209			US-PATENT-CLASS-121-38	
		US-PATENT-APPL-SN-516162		US-PATENT-3,574,470			US-PATENT-2,898,889	
		US-PATENT-CLASS-343-100	N71-28994*	c 14	NASA-CASE-XER-11203	N71-29129*	c 03	NASA-CASE-XGS-01674
		US-PATENT-3,331,071		US-PATENT-APPL-SN-815366			US-PATENT-APPL-SN-248985	
N71-28903*	c 33	NASA-CASE-XLA-01745		US-PATENT-CLASS-250-218			US-PATENT-CLASS-320-13	
		US-PATENT-APPL-SN-538907		US-PATENT-CLASS-356-103			US-PATENT-3,118,100	
		US-PATENT-CLASS-244-1		US-PATENT-3,578,867	N71-29131*	c 16	NASA-CASE-ERC-10151	
		US-PATENT-3,409,247	N71-29008*	c 09	NASA-CASE-MS-11277		US-PATENT-APPL-SN-853856	
N71-28915*	c 28	NASA-CASE-LEW-10286-1		US-PATENT-APPL-SN-771759			US-PATENT-CLASS-350-3.5	
		US-PATENT-APPL-SN-839994		US-PATENT-CLASS-317-155.5			US-PATENT-3,578,838	
		US-PATENT-CLASS-431-352		US-PATENT-CLASS-317-33	N71-29132*	c 15	NASA-CASE-NPO-10431	
		US-PATENT-CLASS-60-39.36		US-PATENT-CLASS-317-54			US-PATENT-APPL-SN-865329	
		US-PATENT-CLASS-60-39.65		US-PATENT-CLASS-317-60			US-PATENT-CLASS-73-49.8	
		US-PATENT-3,581,492		US-PATENT-3,579,041			US-PATENT-3,583,239	
N71-28925*	c 08	NASA-CASE-XNP-01012	N71-29018*	c 15	NASA-CASE-XLA-08916	N71-29133*	c 15	NASA-CASE-MFS-20453
		US-PATENT-APPL-SN-369338		US-PATENT-APPL-SN-777765			US-PATENT-APPL-SN-885594	
		US-PATENT-CLASS-340-174		US-PATENT-CLASS-29-421			US-PATENT-CLASS-29-278R	
		US-PATENT-3,394,359		US-PATENT-3,583,058			US-PATENT-CLASS-294-15	
N71-28926*	c 09	NASA-CASE-XMS-03542	N71-29032*	c 15	NASA-CASE-XMF-05999			US-PATENT-CLASS-339-17R
		US-PATENT-APPL-SN-482952		US-PATENT-APPL-SN-752946			US-PATENT-CLASS-81-3R	
		US-PATENT-CLASS-307-263		US-PATENT-CLASS-117-212			US-PATENT-3,583,744	
		US-PATENT-3,364,366		US-PATENT-3,576,669	N71-29134*	c 14	NASA-CASE-MFS-11204	
N71-28928*	c 28	NASA-CASE-XNP-00816	N71-29033*	c 08	NASA-CASE-GSC-10554-1			US-PATENT-APPL-SN-845991
		US-PATENT-APPL-SN-235588		US-PATENT-APPL-SN-828984			US-PATENT-CLASS-73-1R	
		US-PATENT-CLASS-253-77		US-PATENT-CLASS-235-150.1			US-PATENT-CLASS-73-304C	
		US-PATENT-3,202,398		US-PATENT-CLASS-235-150.2			US-PATENT-3,578,755	
N71-28929*	c 27	NASA-CASE-XNP-00650		US-PATENT-CLASS-235-150.27	N71-29135*	c 10	NASA-CASE-GSC-10564	
		US-PATENT-APPL-SN-271823		US-PATENT-CLASS-235-151.1			US-PATENT-APPL-SN-292596	
		US-PATENT-CLASS-60-39.48		US-PATENT-3,578,957			US-PATENT-CLASS-340-174	
		US-PATENT-3,170,295	N71-29034*	c 08	NASA-CASE-NPO-11088			US-PATENT-3,348,218
N71-28933*	c 14	NASA-CASE-XLA-08913		US-PATENT-APPL-SN-887701	N71-29136*	c 15	NASA-CASE-XLA-00013	
		US-PATENT-APPL-SN-865109		US-PATENT-CLASS-307-207			US-PATENT-APPL-SN-579121	
		US-PATENT-CLASS-204-263		US-PATENT-CLASS-307-222			US-PATENT-CLASS-308-177	
		US-PATENT-3,574,084		US-PATENT-CLASS-328-167			US-PATENT-2,903,307	
N71-28935*	c 14	NASA-CASE-LAR-10686		US-PATENT-CLASS-328-44	N71-29137*	c 17	NASA-CASE-XNP-04339	
		US-PATENT-APPL-SN-280362		US-PATENT-3,579,122			US-PATENT-APPL-SN-451596	
		US-PATENT-CLASS-226-58	N71-29035*	c 09	NASA-CASE-LEW-10155-1			US-PATENT-CLASS-264-111
		US-PATENT-3,298,582		US-PATENT-APPL-SN-889387			US-PATENT-3,413,393	
N71-28936*	c 15	NASA-CASE-XMS-10993		US-PATENT-CLASS-337-114	N71-29138*	c 08	NASA-CASE-ERC-10041	
		US-PATENT-APPL-SN-660573		US-PATENT-CLASS-337-121			US-PATENT-APPL-SN-889478	
		US-PATENT-CLASS-244-1		US-PATENT-3,579,168			US-PATENT-CLASS-307-234	
		US-PATENT-3,389,877	N71-29040*	c 18	NASA-CASE-XLE-10910			US-PATENT-CLASS-307-265
N71-28937*	c 15	NASA-CASE-XNP-01855		US-PATENT-APPL-SN-751061			US-PATENT-CLASS-324-106	
		US-PATENT-APPL-SN-408435		US-PATENT-CLASS-148-6			US-PATENT-CLASS-328-58	
		US-PATENT-CLASS-285-45		US-PATENT-3,573,996			US-PATENT-CLASS-332-10	
		US-PATENT-3,219,365	N71-29041*	c 14	NASA-CASE-XLA-10402			US-PATENT-CLASS-332-9R
N71-28951*	c 15	NASA-CASE-XNP-02278		US-PATENT-APPL-SN-762935			US-PATENT-3,579,146	
		US-PATENT-APPL-SN-11853		US-PATENT-CLASS-356-76	N71-29139*	c 09	NASA-CASE-XLA-07788	
		US-PATENT-CLASS-60-35.55		US-PATENT-3,574,462			US-PATENT-APPL-SN-874732	
		US-PATENT-3,132,479	N71-29044*	c 03	NASA-CASE-XMS-02063			US-PATENT-CLASS-307-215
N71-28952*	c 15	NASA-CASE-XAC-00001		US-PATENT-APPL-SN-422096			US-PATENT-CLASS-307-247	
		US-PATENT-APPL-SN-612568		US-PATENT-CLASS-136-86			US-PATENT-CLASS-307-265	
		US-PATENT-CLASS-318-31		US-PATENT-3,382,105			US-PATENT-CLASS-307-273	
		US-PATENT-2,837,706	N71-29046*	c 33	NASA-CASE-XHQ-03673			US-PATENT-CLASS-307-294
N71-28958*	c 14	NASA-CASE-XNP-02792		US-PATENT-APPL-SN-559055			US-PATENT-CLASS-328-207	
		US-PATENT-APPL-SN-262596		US-PATENT-CLASS-165-86			US-PATENT-3,578,988	
		US-PATENT-CLASS-219-413		US-PATENT-3,347,309	N71-29151*	c 33	NASA-CASE-XLE-00035	
		US-PATENT-3,197,616	N71-29049*	c 23	NASA-CASE-XNP-06503			US-PATENT-APPL-SN-575291
N71-28959*	c 15	NASA-CASE-XNP-01848		US-PATENT-APPL-SN-370989			US-PATENT-CLASS-204-37	
		US-PATENT-APPL-SN-359532		US-PATENT-CLASS-335-216			US-PATENT-2,926,123	
		US-PATENT-CLASS-64-27		US-PATENT-3,273,094	N71-29152*	c 33	NASA-CASE-XLE-00027	
		US-PATENT-3,236,066	N71-29050*	c 31	NASA-CASE-HQN-00936			US-PATENT-APPL-SN-529594
N71-28960*	c 10	NASA-CASE-XNP-00745		US-PATENT-APPL-SN-862921			US-PATENT-CLASS-253-39.1	
		US-PATENT-APPL-SN-314570		US-PATENT-CLASS-244-1			US-PATENT-2,956,772	
		US-PATENT-CLASS-328-67		US-PATENT-3,396,920	N71-29153*	c 28	NASA-CASE-MFS-20831	
		US-PATENT-3,252,100	N71-29051*	c 33	NASA-CASE-XMF-04208			US-PATENT-APPL-SN-238421
N71-28963*	c 16	NASA-CASE-XLA-01090		US-PATENT-APPL-SN-428887			US-PATENT-CLASS-60-35.54	
		US-PATENT-APPL-SN-274065		US-PATENT-CLASS-73-190			US-PATENT-3,212,259	
		US-PATENT-CLASS-250-199		US-PATENT-3,372,588	N71-29154*	c 28	NASA-CASE-XLE-00155	
		US-PATENT-3,215,842	N71-29052*	c 33	NASA-CASE-MS-12389			US-PATENT-APPL-SN-348600
N71-28965* #	c 07	NASA-CASE-GSC-10949-1		US-PATENT-APPL-SN-229286			US-PATENT-CLASS-253-77	
		US-PATENT-APPL-SN-94369		US-PATENT-CLASS-165-47			US-PATENT-2,997,274	
N71-28979*	c 07	NASA-CASE-HQN-00937		US-PATENT-3,212,564	N71-29155*	c 27	NASA-CASE-MS-12390	
		US-PATENT-APPL-SN-343760	N71-29053*	c 33	NASA-CASE-HQN-00938			US-PATENT-APPL-SN-231520
		US-PATENT-CLASS-343-823		US-PATENT-APPL-SN-300957			US-PATENT-CLASS-222-61	
		US-PATENT-3,299,431		US-PATENT-CLASS-60-267			US-PATENT-3,286,882	
N71-28980*	c 07	NASA-CASE-XLA-10772		US-PATENT-3,298,175	N71-29156*	c 26	NASA-CASE-XNP-01961	
		US-PATENT-APPL-SN-887700	N71-29065*	c 07	NASA-CASE-ERC-10011			US-PATENT-APPL-SN-442835
		US-PATENT-CLASS-343-708		US-PATENT-APPL-SN-802818			US-PATENT-CLASS-148-174	
		US-PATENT-CLASS-343-784		US-PATENT-CLASS-333-81			US-PATENT-3,397,094	
		US-PATENT-CLASS-343-872		US-PATENT-CLASS-350-1	N71-29184*	c 25	NASA-CASE-XLA-00327	
		US-PATENT-3,579,242		US-PATENT-CLASS-350-286			US-PATENT-APPL-SN-199199	
N71-28991*	c 14	NASA-CASE-XLA-06713		US-PATENT-3,574,438			US-PATENT-CLASS-315-111	
		US-PATENT-APPL-SN-863913	N71-29123*	c 23	NASA-CASE-XNP-08907			US-PATENT-3,238,413
		US-PATENT-CLASS-324-5		US-PATENT-APPL-SN-824042	N71-30026*	c 14	NASA-CASE-MFS-20096	
		US-PATENT-CLASS-324-73		US-PATENT-CLASS-350-102			US-PATENT-APPL-SN-435433	
		US-PATENT-CLASS-340-347AD		US-PATENT-CLASS-350-288			US-PATENT-CLASS-73-432	
		US-PATENT-3,579,103		US-PATENT-CLASS-350-310			US-PATENT-3,396,584	
N71-28992*	c 14	NASA-CASE-ERC-10150		US-PATENT-3,574,448	N71-30027*	c 23	NASA-CASE-GSC-10700	
		US-PATENT-APPL-SN-822519	N71-29125*	c 23	NASA-CASE-NPO-11087			US-PATENT-APPL-SN-311387
		US-PATENT-CLASS-250-41.95		US-PATENT-APPL-SN-840359			US-PATENT-CLASS-350-2	
		US-PATENT-CLASS-73-40.7		US-PATENT-CLASS-331-94.5			US-PATENT-3,394,975	
		US-PATENT-3,578,758		US-PATENT-CLASS-356-153	N71-30028*	c 15	NASA-CASE-MFS-20830	
N71-28993*	c 14	NASA-CASE-MFS-20044		US-PATENT-3,574,467			US-PATENT-APPL-SN-286620	

N71-30265*	c 14	US-PATENT-3,262,395	US-PATENT-CLASS-325-480	US-PATENT-CLASS-250-235
		NASA-CASE-HQN-10780	US-PATENT-CLASS-325-482	US-PATENT-CLASS-33-125
		US-PATENT-APPL-SN-247136	US-PATENT-CLASS-328-164	US-PATENT-CLASS-356-167
N71-30292*	c 23	US-PATENT-CLASS-73-497	US-PATENT-CLASS-328-165	US-PATENT-CLASS-356-167
		US-PATENT-3,270,565	US-PATENT-CLASS-329-145	US-PATENT-CLASS-73-95
		NASA-CASE-HQN-10781	US-PATENT-3,588,705	US-PATENT-3,592,545
N71-33108*	c 07	US-PATENT-APPL-SN-86018	N71-34044* # c 03	NASA-CASE-MFS-20485
		US-PATENT-3,239,660	US-PATENT-APPL-SN-115944	US-PATENT-APPL-SN-22320
		NASA-CASE-KSC-10164	NASA-CASE-MFS-20935	US-PATENT-CLASS-250-43.5FC
N71-33109*	c 09	US-PATENT-APPL-SN-782955	US-PATENT-APPL-SN-136007	US-PATENT-CLASS-73-194F
		US-PATENT-CLASS-179-1R	NASA-CASE-HQN-10683	US-PATENT-3,599,489
		US-PATENT-CLASS-179-1VC	US-PATENT-APPL-SN-146217	NASA-CASE-MFS-18495
N71-33110*	c 08	US-PATENT-3,588,359	NASA-CASE-HQN-10537-1	US-PATENT-APPL-SN-38814
		NASA-CASE-ARC-10101-1	US-PATENT-APPL-SN-112366	US-PATENT-CLASS-24-21 IN
		US-PATENT-APPL-SN-793823	NASA-CASE-GSC-11095-1	US-PATENT-CLASS-85-5B
N71-33129*	c 10	US-PATENT-CLASS-307-251	US-PATENT-APPL-SN-147940	US-PATENT-3,596,554
		US-PATENT-CLASS-307-261	NASA-CASE-LAR-10557	NASA-CASE-MFS-20249
		US-PATENT-CLASS-321-47	US-PATENT-APPL-SN-853746	US-PATENT-APPL-SN-794530
N71-33160*	c 31	US-PATENT-3,588,671	US-PATENT-CLASS-416-115	US-PATENT-CLASS-248-183
		NASA-CASE-GSC-10186	US-PATENT-CLASS-416-121	US-PATENT-CLASS-248-278
		US-PATENT-APPL-SN-713188	US-PATENT-CLASS-416-127	US-PATENT-CLASS-248-487
N71-33229*	c 23	US-PATENT-CLASS-235-164	US-PATENT-CLASS-416-130	US-PATENT-CLASS-33-72
		US-PATENT-CLASS-235-175	US-PATENT-CLASS-416-149	US-PATENT-CLASS-350-285
		US-PATENT-3,588,483	US-PATENT-CLASS-416-200	US-PATENT-CLASS-350-287
N71-33407*	c 10	NASA-CASE-GSC-10667-1	US-PATENT-3,592,559	US-PATENT-3,596,863
		US-PATENT-APPL-SN-749548	NASA-CASE-XGS-04047-2	NASA-CASE-XMF-09902
		US-PATENT-CLASS-330-11	US-PATENT-APPL-SN-843251	US-PATENT-APPL-SN-769665
N71-33408*	c 17	US-PATENT-CLASS-330-16	US-PATENT-CLASS-136-206	US-PATENT-CLASS-75-20F
		US-PATENT-CLASS-330-24	US-PATENT-3,597,281	US-PATENT-3,592,628
		US-PATENT-3,585,514	NASA-CASE-NPO-10677	NASA-CASE-MFS-20423
N71-33409*	c 03	NASA-CASE-XLA-04063	US-PATENT-APPL-SN-868530	US-PATENT-APPL-SN-865298
		US-PATENT-APPL-SN-802948	US-PATENT-CLASS-62-467	US-PATENT-CLASS-212-134
		US-PATENT-CLASS-179-1	US-PATENT-CLASS-62-56	US-PATENT-CLASS-308-5
N71-33410*	c 23	US-PATENT-CLASS-244-1	US-PATENT-3,599,443	US-PATENT-3,600,046
		US-PATENT-CLASS-244-83	NASA-CASE-MSC-13140	NASA-CASE-XLA-05056
		US-PATENT-3,586,261	US-PATENT-APPL-SN-796358	US-PATENT-APPL-SN-596733
N71-33409*	c 03	NASA-CASE-NPO-10468	US-PATENT-CLASS-285-410	US-PATENT-CLASS-210-445
		US-PATENT-APPL-SN-787846	US-PATENT-CLASS-297-232	US-PATENT-3,592,768
		US-PATENT-CLASS-350-310	US-PATENT-CLASS-297-68	NASA-CASE-MFS-18100
N71-33407*	c 10	US-PATENT-CLASS-350-55	US-PATENT-CLASS-5-69	US-PATENT-APPL-SN-784055
		US-PATENT-3,588,220	US-PATENT-3,592,505	US-PATENT-CLASS-15-143
		NASA-CASE-NPO-10342	NASA-CASE-NPO-10301	US-PATENT-CLASS-15-210
N71-33408*	c 17	US-PATENT-APPL-SN-704446	US-PATENT-APPL-SN-848810	US-PATENT-3,591,885
		US-PATENT-CLASS-178-69.5	US-PATENT-CLASS-343-771	NASA-CASE-NPO-11012
		US-PATENT-CLASS-179-15BS	US-PATENT-CLASS-343-853	US-PATENT-APPL-SN-845807
N71-33409*	c 03	US-PATENT-CLASS-340-347DD	US-PATENT-3,599,216	US-PATENT-CLASS-248-18
		US-PATENT-3,588,883	NASA-CASE-GSC-10390-1	US-PATENT-CLASS-248-20
		NASA-CASE-LEW-10327	US-PATENT-APPL-SN-749121	US-PATENT-3,592,422
N71-33410*	c 16	US-PATENT-APPL-SN-772006	US-PATENT-CLASS-325-39	NASA-CASE-MFS-20299
		US-PATENT-CLASS-148-6.3	US-PATENT-CLASS-325-4	US-PATENT-APPL-SN-889437
		US-PATENT-3,591,426	US-PATENT-CLASS-325-58	US-PATENT-CLASS-156-320
N71-33410*	c 16	NASA-CASE-ARC-10050	US-PATENT-CLASS-343-179	US-PATENT-CLASS-156-66
		US-PATENT-APPL-SN-797219	US-PATENT-CLASS-343-5DP	US-PATENT-CLASS-219-221
		US-PATENT-CLASS-136-89	US-PATENT-CLASS-343-7.5	US-PATENT-CLASS-219-243
N71-33410*	c 16	US-PATENT-3,591,420	US-PATENT-3,593,138	US-PATENT-3,593,001
		NASA-CASE-NPO-10417	NASA-CASE-NPO-11064	NASA-CASE-GSC-11133-1
		US-PATENT-APPL-SN-753974	US-PATENT-APPL-SN-880248	US-PATENT-APPL-SN-121328
N71-33410*	c 16	US-PATENT-CLASS-331-94.5	US-PATENT-CLASS-331-10	NASA-CASE-MFS-20095
		US-PATENT-CLASS-352-84	US-PATENT-CLASS-331-34	US-PATENT-APPL-SN-855004
		US-PATENT-CLASS-95-11	US-PATENT-CLASS-331-66	US-PATENT-CLASS-250-49.5B
N71-33410*	c 16	US-PATENT-3,587,424	US-PATENT-CLASS-331-7	US-PATENT-CLASS-250-49.5TE
		NASA-CASE-XLA-03661	US-PATENT-3,593,180	US-PATENT-CLASS-250-52
		US-PATENT-APPL-SN-751266	NASA-CASE-NPO-10769	US-PATENT-3,593,024
N71-33410*	c 16	US-PATENT-CLASS-408-137	US-PATENT-APPL-SN-813494	NASA-CASE-MFS-20619
		US-PATENT-CLASS-90-11	US-PATENT-CLASS-179-15.55R	US-PATENT-APPL-SN-18982
		US-PATENT-3,585,882	US-PATENT-3,598,921	US-PATENT-CLASS-139-425R
N71-33410*	c 16	NASA-CASE-ERC-10100	NASA-CASE-GSC-10880-1	US-PATENT-CLASS-239-265.19
		US-PATENT-APPL-SN-766697	US-PATENT-APPL-SN-831118	US-PATENT-CLASS-239-265.43
		US-PATENT-CLASS-313-109.5	US-PATENT-CLASS-235-61NV	US-PATENT-CLASS-60-271
N71-33410*	c 16	US-PATENT-CLASS-313-231	US-PATENT-CLASS-33-15A	US-PATENT-3,596,465
		US-PATENT-CLASS-315-108	US-PATENT-CLASS-33-204C	NASA-CASE-NPO-10737
		US-PATENT-CLASS-315-111	US-PATENT-3,599,335	US-PATENT-APPL-SN-760114
N71-33410*	c 16	US-PATENT-CLASS-340-324	NASA-CASE-GSC-10614-1	US-PATENT-CLASS-60-212
		US-PATENT-CLASS-340-336	US-PATENT-APPL-SN-822534	US-PATENT-CLASS-60-39.48
		US-PATENT-3,588,874	US-PATENT-CLASS-179-100-2CA	US-PATENT-3,591,967
N71-33410*	c 16	NASA-CASE-NPO-11031	US-PATENT-CLASS-179-100-2MD	NASA-CASE-GSC-10087-3
		US-PATENT-APPL-SN-864097	US-PATENT-CLASS-274-4R	US-PATENT-APPL-SN-880885
		US-PATENT-CLASS-333-21A	US-PATENT-3,592,478	US-PATENT-CLASS-325-4
N71-33410*	c 16	US-PATENT-CLASS-333-6	NASA-CASE-KSC-10162	US-PATENT-CLASS-343-6.5R
		US-PATENT-CLASS-333-7	US-PATENT-APPL-SN-817481	US-PATENT-CLASS-343-6.8R
		US-PATENT-3,588,751	US-PATENT-CLASS-324-102	US-PATENT-3,594,790
N71-33410*	c 16	NASA-CASE-XLA-09480	US-PATENT-CLASS-324-119	NASA-CASE-GSC-10185-1
		US-PATENT-APPL-SN-874435	US-PATENT-CLASS-324-123R	US-PATENT-APPL-SN-733039
		US-PATENT-CLASS-73-147	US-PATENT-3,593,132	US-PATENT-CLASS-178-DIG.12
N71-33410*	c 16	US-PATENT-3,587,306	NASA-CASE-ARC-10042-2	US-PATENT-CLASS-178-6
		NASA-CASE-NPO-10700	US-PATENT-APPL-SN-33159	US-PATENT-CLASS-178-7.3
		US-PATENT-APPL-SN-840308	US-PATENT-CLASS-330-107	US-PATENT-CLASS-325-10
N71-33410*	c 16	US-PATENT-CLASS-318-227	US-PATENT-CLASS-330-109	US-PATENT-CLASS-325-13
		US-PATENT-CLASS-318-230	US-PATENT-3,593,175	US-PATENT-3,588,331
		US-PATENT-3,588,648	NASA-CASE-MSC-11847-1	NASA-CASE-XER-09521
N71-33410*	c 16	NASA-CASE-MSC-12165-1	US-PATENT-APPL-SN-8497	US-PATENT-APPL-SN-771530
		US-PATENT-APPL-SN-875849	US-PATENT-CLASS-73-149	US-PATENT-CLASS-136-202
		US-PATENT-CLASS-325-347	US-PATENT-CLASS-73-290B	US-PATENT-CLASS-136-206
N71-33410*	c 16	US-PATENT-CLASS-325-348	US-PATENT-3,596,510	US-PATENT-CLASS-136-227
		US-PATENT-CLASS-325-473	NASA-CASE-NPO-10778	US-PATENT-CLASS-343-DIG.3
		US-PATENT-CLASS-325-478	US-PATENT-APPL-SN-865909	

		US-PATENT-CLASS-343-720			US-PATENT-APPL-SN-47443			US-PATENT-APPL-SN-24154
		US-PATENT-CLASS-343-840			US-PATENT-CLASS-250-211J			US-PATENT-CLASS-188-1C
		US-PATENT-3,594,803			US-PATENT-3,603,798			US-PATENT-CLASS-188-129
N72-12408*	c 15	NASA-CASE-XLA-05966	N72-17153*	c 09	NASA-CASE-ARC-10105	N72-17451*	c 15	US-PATENT-3,603,433
		US-PATENT-APPL-SN-784544			US-PATENT-APPL-SN-887698			NASA-CASE-WLP-10002
		US-PATENT-CLASS-140-105			US-PATENT-CLASS-128-2.1A			US-PATENT-APPL-SN-47062
		US-PATENT-CLASS-72-307			US-PATENT-CLASS-307-252F			US-PATENT-CLASS-180-125
		US-PATENT-3,584,660			US-PATENT-CLASS-307-252J			US-PATENT-CLASS-180-127
N72-12409*	c 15	NASA-CASE-NPO-10637			US-PATENT-CLASS-325-492			US-PATENT-CLASS-308-DIG.1
		US-PATENT-APPL-SN-851298			US-PATENT-CLASS-340-177			US-PATENT-CLASS-308-5
		US-PATENT-CLASS-236-68			US-PATENT-3,603,946			US-PATENT-CLASS-308-9
		US-PATENT-CLASS-337-354	N72-17154*	c 09	NASA-CASE-ERC-10139	N72-17452*	c 15	US-PATENT-3,610,365
		US-PATENT-CLASS-337-359			US-PATENT-APPL-SN-889555			NASA-CASE-XLA-10322
		US-PATENT-CLASS-337-75			US-PATENT-CLASS-321-10			US-PATENT-APPL-SN-887699
		US-PATENT-CLASS-60-23			US-PATENT-CLASS-336-178			US-PATENT-CLASS-73-88.5R
		US-PATENT-3,591,960			US-PATENT-3,603,864			US-PATENT-3,608,365
N72-12440*	c 16	NASA-CASE-MFS-20180	N72-17155*	c 09	NASA-CASE-NPO-11023	N72-17453*	c 15	NASA-CASE-NPO-11177
		US-PATENT-APPL-SN-863276			US-PATENT-APPL-SN-865274			US-PATENT-APPL-SN-20960
		US-PATENT-CLASS-331-94.5			US-PATENT-CLASS-330-18			US-PATENT-CLASS-62-51
		US-PATENT-CLASS-350-1			US-PATENT-CLASS-330-40			US-PATENT-3,605,424
		US-PATENT-CLASS-350-312			US-PATENT-3,603,892	N72-17454*	c 15	NASA-CASE-NPO-11059
		US-PATENT-3,593,194	N72-17156*	c 09	NASA-CASE-NPO-10199			US-PATENT-APPL-SN-864020
N72-13437*	c 16	NASA-CASE-MFS-20125			US-PATENT-APPL-SN-739391			US-PATENT-CLASS-248-14
		US-PATENT-APPL-SN-830366			US-PATENT-CLASS-178-7.1			US-PATENT-3,606,979
		US-PATENT-CLASS-178-DIG.21			US-PATENT-CLASS-330-11	N72-17455*	c 15	NASA-CASE-NPO-11140
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-330-35			US-PATENT-APPL-SN-15019
		US-PATENT-CLASS-250-203X			US-PATENT-3,609,230			US-PATENT-CLASS-174-84
		US-PATENT-CLASS-356-152	N72-17157*	c 09	NASA-CASE-NPO-11253			US-PATENT-CLASS-200-64
		US-PATENT-3,603,686			US-PATENT-APPL-SN-21906			US-PATENT-CLASS-339-176M
N72-15098* #	c 05	NASA-CASE-MSC-13917-1			US-PATENT-CLASS-307-223			US-PATENT-CLASS-339-278M
		US-PATENT-APPL-SN-198355			US-PATENT-CLASS-307-227			US-PATENT-CLASS-339-46
N72-15986*	c 03	NASA-CASE-XGS-10010			US-PATENT-CLASS-307-81			US-PATENT-CLASS-89-1.811
		US-PATENT-APPL-SN-729299			US-PATENT-CLASS-328-186			US-PATENT-3,611,274
		US-PATENT-CLASS-136-133			US-PATENT-3,609,387	N72-17532*	c 18	NASA-CASE-MFS-13532
		US-PATENT-CLASS-136-135	N72-17171*	c 10	NASA-CASE-XAC-05462-2			US-PATENT-APPL-SN-720546
		US-PATENT-CLASS-136-6			US-PATENT-APPL-SN-28235			US-PATENT-CLASS-106-292
		US-PATENT-3,607,401			US-PATENT-CLASS-307-295			US-PATENT-CLASS-106-299
N72-16015*	c 05	NASA-CASE-KSC-10278			US-PATENT-CLASS-328-167			US-PATENT-3,607,338
		US-PATENT-APPL-SN-856327			US-PATENT-CLASS-330-109	N72-17747*	c 23	NASA-CASE-ERC-10089
		US-PATENT-CLASS-324-66			US-PATENT-CLASS-330-176			US-PATENT-APPL-SN-791267
		US-PATENT-CLASS-340-279			US-PATENT-CLASS-333-70CR			US-PATENT-CLASS-340-174AG
		US-PATENT-CLASS-35-8			US-PATENT-3,609,567			US-PATENT-CLASS-340-174CT
N72-16172*	c 10	US-PATENT-3,609,740	N72-17172*	c 10	NASA-CASE-ARC-10020			US-PATENT-CLASS-340-174GA
		NASA-CASE-ARC-10269-1			US-PATENT-APPL-SN-31885			US-PATENT-CLASS-340-174SC
		US-PATENT-APPL-SN-56791			US-PATENT-CLASS-330-107			US-PATENT-3,611,330
		US-PATENT-CLASS-307-230			US-PATENT-CLASS-330-109	N72-17820*	c 26	NASA-CASE-XER-08476-1
		US-PATENT-CLASS-307-262			US-PATENT-CLASS-330-26			US-PATENT-APPL-SN-672388
		US-PATENT-CLASS-328-155			US-PATENT-CLASS-330-31			US-PATENT-CLASS-148-187
		US-PATENT-3,614,475			US-PATENT-CLASS-330-94			US-PATENT-CLASS-29-578
N72-16282*	c 14	NASA-CASE-LAR-10913			US-PATENT-3,605,032			US-PATENT-CLASS-29-589
		US-PATENT-APPL-SN-779160	N72-17173*	c 10	NASA-CASE-MFS-13130			US-PATENT-3,602,984
		US-PATENT-CLASS-73-12			US-PATENT-APPL-SN-7868	N72-17843*	c 28	NASA-CASE-NPO-10046
		US-PATENT-3,605,482			US-PATENT-CLASS-250-209			US-PATENT-APPL-SN-860635
N72-16283*	c 14	NASA-CASE-GSC-10780-1			US-PATENT-CLASS-250-83.3UV			US-PATENT-CLASS-60-258
		US-PATENT-APPL-SN-860493			US-PATENT-CLASS-340-228.2			US-PATENT-CLASS-60-39.74
		US-PATENT-CLASS-82-24R			US-PATENT-3,609,364			US-PATENT-3,603,092
N72-16329*	c 15	US-PATENT-3,608,409	N72-17183*	c 11	NASA-CASE-MFS-20509	N72-17873*	c 30	NASA-CASE-ARC-10134
		NASA-CASE-XLA-07829			US-PATENT-APPL-SN-889557			US-PATENT-APPL-SN-819898
		US-PATENT-APPL-SN-763684			US-PATENT-CLASS-73-147			US-PATENT-CLASS-244-3.21
		US-PATENT-CLASS-264-DIG.44			US-PATENT-3,602,920	N72-17947*	c 33	US-PATENT-3,603,532
		US-PATENT-CLASS-264-221	N72-17323*	c 14	NASA-CASE-ERC-10248			NASA-CASE-MSC-12143-1
		US-PATENT-CLASS-264-225			US-PATENT-APPL-SN-868445			US-PATENT-APPL-SN-791268
		US-PATENT-CLASS-264-227			US-PATENT-CLASS-350-162			US-PATENT-CLASS-102-105
		US-PATENT-3,608,046			US-PATENT-CLASS-356-113			US-PATENT-CLASS-161-67
N72-16330*	c 15	NASA-CASE-LAR-10203-1			US-PATENT-CLASS-356-209			US-PATENT-CLASS-244-117
		US-PATENT-APPL-SN-769592			US-PATENT-CLASS-356-244			US-PATENT-3,603,260
		US-PATENT-CLASS-156-84			US-PATENT-3,603,690	N72-17948*	c 33	NASA-CASE-NPO-10828
		US-PATENT-CLASS-156-86	N72-17324*	c 14	NASA-CASE-MFS-20596			US-PATENT-APPL-SN-873260
		US-PATENT-3,607,495			US-PATENT-APPL-SN-7867			US-PATENT-CLASS-165-105
N72-17093*	c 06	NASA-CASE-LEW-10794-1			US-PATENT-CLASS-350-3.5			US-PATENT-3,603,382
		US-PATENT-APPL-SN-33535			US-PATENT-3,605,519	N72-18184*	c 08	NASA-CASE-NPO-10629
		US-PATENT-CLASS-23-55	N72-17325*	c 14	NASA-CASE-MSC-15158-1			US-PATENT-APPL-SN-860751
		US-PATENT-CLASS-23-88			US-PATENT-APPL-SN-889479			US-PATENT-CLASS-178-50
		US-PATENT-CLASS-23-97			US-PATENT-CLASS-324-52			US-PATENT-CLASS-178-66
		US-PATENT-3,607,015			US-PATENT-3,609,535			US-PATENT-CLASS-179-15
N72-17094*	c 06	NASA-CASE-NPO-10234	N72-17326*	c 14	NASA-CASE-XMS-01994-1			US-PATENT-CLASS-235-154
		US-PATENT-APPL-SN-800204			US-PATENT-APPL-SN-814212			US-PATENT-CLASS-340-347DD
		US-PATENT-CLASS-23-230R			US-PATENT-CLASS-356-4			US-PATENT-3,603,976
		US-PATENT-CLASS-23-232C			US-PATENT-3,603,683	N72-18411*	c 14	NASA-CASE-KSC-10294
		US-PATENT-CLASS-23-253PC	N72-17327*	c 14	NASA-CASE-LEW-10281-1			US-PATENT-APPL-SN-889556
		US-PATENT-CLASS-73-23.1			US-PATENT-APPL-SN-861649			US-PATENT-CLASS-307-311
		US-PATENT-3,607,076			US-PATENT-CLASS-73-198			US-PATENT-CLASS-346-107A
N72-17095*	c 06	NASA-CASE-NPO-10774			US-PATENT-3,605,495			US-PATENT-CLASS-346-23
		US-PATENT-APPL-SN-848805	N72-17328*	c 14	NASA-CASE-XLA-07813			US-PATENT-CLASS-352-84
		US-PATENT-CLASS-23-201			US-PATENT-APPL-SN-791364			US-PATENT-CLASS-95-1.1
		US-PATENT-CLASS-23-230			US-PATENT-CLASS-250-207			US-PATENT-3,603,974
		US-PATENT-CLASS-23-253			US-PATENT-CLASS-250-41.9	N72-18477*	c 15	NASA-CASE-GSC-10566-1
		US-PATENT-CLASS-73-76			US-PATENT-CLASS-250-49.5			US-PATENT-APPL-SN-889438
		US-PATENT-3,607,080			US-PATENT-CLASS-250-71.5			US-PATENT-CLASS-242-54
N72-17109*	c 07	NASA-CASE-MSC-12146-1			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-52-108
		US-PATENT-APPL-SN-50206			US-PATENT-3,609,353			US-PATENT-3,608,844
		US-PATENT-CLASS-178-5.2R	N72-17329*	c 14	NASA-CASE-FRC-10012	N72-18766*	c 28	NASA-CASE-GSC-10640-1
		US-PATENT-CLASS-178-5.4			US-PATENT-APPL-SN-771216			US-PATENT-APPL-SN-17101
		US-PATENT-CLASS-178-6.7			US-PATENT-CLASS-73-194A			US-PATENT-CLASS-23-281
		US-PATENT-3,603,722			US-PATENT-3,611,801			US-PATENT-CLASS-23-288
N72-17152*	c 09	NASA-CASE-ARC-10178-1	N72-17450*	c 15	NASA-CASE-MSC-12279			US-PATENT-CLASS-60-260

N72-18859*	c 31	US-PATENT-3,603,093 NASA-CASE-MSC-13281 US-PATENT-APPL-SN-7669 US-PATENT-CLASS-244-15.5 US-PATENT-3,606,212	N72-20221*	c 10	NASA-CASE-GSC-10082-1 US-PATENT-APPL-SN-41430 US-PATENT-CLASS-307-273 US-PATENT-CLASS-307-288 US-PATENT-CLASS-307-313 US-PATENT-CLASS-328-207 US-PATENT-CLASS-330-30D US-PATENT-3,633,048	N72-20840* #	c 31	US-PATENT-3,636,711 NASA-CASE-MFS-20922 US-PATENT-APPL-SN-220274
N72-20031*	c 03	NASA-CASE-GSC-10669-1 US-PATENT-APPL-SN-90595 US-PATENT-CLASS-136-89 US-PATENT-CLASS-244-15S US-PATENT-CLASS-340-210 US-PATENT-3,636,539	N72-20222*	c 10	NASA-CASE-XLA-11189 US-PATENT-APPL-SN-889375 US-PATENT-CLASS-324-115 US-PATENT-CLASS-324-132 US-PATENT-3,638,114	N72-20915*	c 33	NASA-CASE-NPO-10831 US-PATENT-APPL-SN-10161 US-PATENT-CLASS-122-32 US-PATENT-CLASS-165-133 US-PATENT-CLASS-165-155 US-PATENT-CLASS-165-158 US-PATENT-CLASS-165-161 US-PATENT-CLASS-165-174 US-PATENT-3,630,276
N72-20032*	c 03	NASA-CASE-NPO-11021 US-PATENT-APPL-SN-880250 US-PATENT-CLASS-136-166 US-PATENT-CLASS-136-79 US-PATENT-CLASS-136-81 US-PATENT-3,625,766	N72-20223*	c 10	NASA-CASE-NPO-11133 US-PATENT-APPL-SN-887685 US-PATENT-CLASS-307-295 US-PATENT-CLASS-328-16 US-PATENT-CLASS-328-166 US-PATENT-CLASS-328-20 US-PATENT-CLASS-328-38 US-PATENT-3,626,308	N72-21094*	c 06	NASA-CASE-ERC-10108 US-PATENT-APPL-SN-833049 US-PATENT-CLASS-156-3 US-PATENT-CLASS-96-36.2 US-PATENT-3,615,465
N72-20033*	c 03	NASA-CASE-NPO-10401 US-PATENT-APPL-SN-15025 US-PATENT-CLASS-210-212 US-PATENT-CLASS-356-222 US-PATENT-3,630,627	N72-20224*	c 10	NASA-CASE-NPO-11203 US-PATENT-APPL-SN-3696 US-PATENT-CLASS-324-83A US-PATENT-CLASS-324-85 US-PATENT-CLASS-328-133 US-PATENT-CLASS-343-12 US-PATENT-3,631,351	N72-21105* #	c 06	NASA-CASE-GSC-11304-1 US-PATENT-APPL-SN-137912 US-PATENT-CLASS-11154 US-PATENT-APPL-SN-23532 US-PATENT-CLASS-343-706 US-PATENT-CLASS-343-912 US-PATENT-3,623,107
N72-20034*	c 03	NASA-CASE-LEW-11359-2 US-PATENT-APPL-SN-57399 US-PATENT-CLASS-136-100R US-PATENT-CLASS-136-175 US-PATENT-CLASS-136-83R US-PATENT-3,635,765	N72-20225*	c 10	NASA-CASE-MSC-13407-1 US-PATENT-APPL-SN-65840 US-PATENT-CLASS-315-22 US-PATENT-CLASS-315-25 US-PATENT-3,638,066	N72-21117*	c 07	NASA-CASE-XLA-11154 US-PATENT-APPL-SN-23532 US-PATENT-CLASS-343-706 US-PATENT-CLASS-343-912 US-PATENT-3,623,107
N72-20096*	c 05	NASA-CASE-MSC-12411-1 US-PATENT-APPL-SN-701244 US-PATENT-CLASS-128-142.5 US-PATENT-CLASS-128-402 US-PATENT-CLASS-2-2.1 US-PATENT-3,635,216	N72-20244*	c 11	NASA-CASE-NPO-11210 US-PATENT-APPL-SN-880831 US-PATENT-CLASS-123-102 US-PATENT-CLASS-180-105E US-PATENT-CLASS-318-308 US-PATENT-CLASS-318-327 US-PATENT-CLASS-318-376 US-PATENT-3,630,304	N72-21118*	c 07	NASA-CASE-NPO-11001 US-PATENT-APPL-SN-856279 US-PATENT-CLASS-343-100ST US-PATENT-CLASS-343-5CM US-PATENT-CLASS-343-6.5R US-PATENT-3,624,650
N72-20097*	c 05	NASA-CASE-MFS-20332 US-PATENT-APPL-SN-869260 US-PATENT-CLASS-137-469 US-PATENT-CLASS-137-81 US-PATENT-3,636,966	N72-20379*	c 14	NASA-CASE-GSC-10514-1 US-PATENT-APPL-SN-873045 US-PATENT-CLASS-250-208 US-PATENT-CLASS-356-138 US-PATENT-CLASS-356-152 US-PATENT-3,637,312	N72-21197*	c 08	NASA-CASE-ERC-10112 US-PATENT-APPL-SN-796690 US-PATENT-CLASS-179-100.2K US-PATENT-3,614,343
N72-20098*	c 05	NASA-CASE-MSC-12398 US-PATENT-APPL-SN-785615 US-PATENT-CLASS-2-2.1 US-PATENT-3,624,839	N72-20380*	c 14	NASA-CASE-LAR-10176-1 US-PATENT-APPL-SN-811038 US-PATENT-CLASS-95-18 US-PATENT-3,626,828	N72-21198*	c 08	NASA-CASE-KSC-10326 US-PATENT-APPL-SN-25487 US-PATENT-CLASS-235-155 US-PATENT-CLASS-340-347DD US-PATENT-3,638,002
N72-20121*	c 06	NASA-CASE-NPO-10765 US-PATENT-APPL-SN-770425 US-PATENT-CLASS-260-544F US-PATENT-3,637,842	N72-20381*	c 14	NASA-CASE-GSC-10503-1 US-PATENT-APPL-SN-789044 US-PATENT-CLASS-250-83.6R US-PATENT-3,626,189	N72-21199*	c 08	NASA-CASE-ERC-10307 US-PATENT-APPL-SN-39755 US-PATENT-CLASS-307-299 US-PATENT-CLASS-307-303 US-PATENT-CLASS-307-311 US-PATENT-CLASS-340-173.2 US-PATENT-CLASS-340-173LS US-PATENT-3,623,030
N72-20140*	c 07	NASA-CASE-NPO-10844 US-PATENT-APPL-SN-839934 US-PATENT-CLASS-178-69.5R US-PATENT-CLASS-179-15BS US-PATENT-CLASS-325-321 US-PATENT-CLASS-325-38 US-PATENT-CLASS-325-4 US-PATENT-CLASS-325-58 US-PATENT-3,626,298	N72-20442*	c 15	NASA-CASE-GSC-10607-1 US-PATENT-APPL-SN-27340 US-PATENT-CLASS-251-129 US-PATENT-CLASS-251-333 US-PATENT-3,632,081	N72-21200*	c 08	NASA-CASE-NPO-11018 US-PATENT-APPL-SN-873259 US-PATENT-CLASS-340-347AD US-PATENT-3,613,111
N72-20141*	c 07	NASA-CASE-ERC-10179 US-PATENT-APPL-SN-50207 US-PATENT-CLASS-325-445 US-PATENT-CLASS-329-161 US-PATENT-CLASS-329-162 US-PATENT-CLASS-332-51W US-PATENT-CLASS-333-73W US-PATENT-CLASS-343-772 US-PATENT-CLASS-343-773 US-PATENT-CLASS-343-786 US-PATENT-3,633,110	N72-20443*	c 15	NASA-CASE-NPO-10671 US-PATENT-APPL-SN-857967 US-PATENT-CLASS-188-1B US-PATENT-CLASS-188-1C US-PATENT-CLASS-188-268 US-PATENT-3,637,051	N72-21243*	c 09	NASA-CASE-LEW-11005-1 US-PATENT-APPL-SN-86548 US-PATENT-CLASS-323-DIG.1 US-PATENT-CLASS-323-22T US-PATENT-CLASS-323-38 US-PATENT-3,638,103
N72-20154* #	c 07	NASA-CASE-NPO-11243 US-PATENT-APPL-SN-177753	N72-20444*	c 15	NASA-CASE-FRC-10038 US-PATENT-APPL-SN-889554 US-PATENT-CLASS-29-412 US-PATENT-CLASS-29-426 US-PATENT-CLASS-29-527.2 US-PATENT-CLASS-29-624 US-PATENT-CLASS-51-216 US-PATENT-CLASS-51-320 US-PATENT-CLASS-51-323 US-PATENT-3,636,623	N72-21244*	c 09	NASA-CASE-LAR-10545-1 US-PATENT-APPL-SN-31703 US-PATENT-CLASS-341-773 US-PATENT-CLASS-343-893 US-PATENT-3,638,224
N72-20176*	c 08	NASA-CASE-NPO-11130 US-PATENT-APPL-SN-21508 US-PATENT-CLASS-235-152 US-PATENT-CLASS-235-92CC US-PATENT-CLASS-235-92DE US-PATENT-CLASS-235-92DM US-PATENT-CLASS-235-92LG US-PATENT-CLASS-235-92R US-PATENT-CLASS-340-347DA US-PATENT-CLASS-340-347DD US-PATENT-3,632,996	N72-20445*	c 15	NASA-CASE-NPO-10704 US-PATENT-APPL-SN-59895 US-PATENT-CLASS-138-178 US-PATENT-CLASS-285-18 US-PATENT-CLASS-285-345 US-PATENT-3,632,140	N72-21245*	c 09	NASA-CASE-ARC-10192 US-PATENT-APPL-SN-15024 US-PATENT-CLASS-307-230 US-PATENT-CLASS-307-295 US-PATENT-CLASS-328-142 US-PATENT-CLASS-328-167 US-PATENT-CLASS-330-70R US-PATENT-CLASS-330-85 US-PATENT-CLASS-333-80 US-PATENT-3,621,407
N72-20177*	c 08	NASA-CASE-NPO-10748 US-PATENT-APPL-SN-63383 US-PATENT-CLASS-324-77G US-PATENT-3,631,339	N72-20446*	c 15	NASA-CASE-MFS-20698 US-PATENT-APPL-SN-3418 US-PATENT-CLASS-100-299 US-PATENT-CLASS-23-209.1 US-PATENT-CLASS-264-22 US-PATENT-CLASS-425-77 US-PATENT-3,632,242	N72-21246*	c 09	NASA-CASE-NPO-11134 US-PATENT-APPL-SN-883524 US-PATENT-CLASS-318-576 US-PATENT-CLASS-324-71R US-PATENT-CLASS-346-1 US-PATENT-CLASS-346-29 US-PATENT-3,624,659
N72-20199*	c 09	NASA-CASE-NPO-10722 US-PATENT-APPL-SN-860492 US-PATENT-CLASS-200-81.9M US-PATENT-CLASS-335-205 US-PATENT-3,632,923	N72-20597*	c 22	NASA-CASE-XLE-04599 US-PATENT-APPL-SN-751215 US-PATENT-CLASS-176-86G US-PATENT-3,629,068	N72-21247*	c 09	NASA-CASE-KSC-10393 US-PATENT-APPL-SN-71047 US-PATENT-CLASS-307-257 US-PATENT-CLASS-307-259 US-PATENT-CLASS-331-111 US-PATENT-CLASS-331-14 US-PATENT-CLASS-331-23 US-PATENT-CLASS-331-30 US-PATENT-3,614,648
N72-20200*	c 09	NASA-CASE-NPO-10694 US-PATENT-APPL-SN-24224 US-PATENT-CLASS-339-275T US-PATENT-CLASS-339-276T US-PATENT-3,631,382	N72-20758*	c 28	NASA-CASE-XNP-03282 US-PATENT-APPL-SN-745337 US-PATENT-CLASS-60-254	N72-21248* #	c 09	NASA-CASE-LAR-10503-1
N72-20206* #	c 09	NASA-CASE-ERC-10468 US-PATENT-APPL-SN-144958						

N72-21310*	c 12	US-PATENT-APPL-SN-229143	N72-22162*	c 08	US-PATENT-CLASS-343-853	N72-22203*	c 09	US-PATENT-CLASS-128-2R
		NASA-CASE-MFS-20829			US-PATENT-CLASS-343-912			US-PATENT-CLASS-307-231
		US-PATENT-APPL-SN-61894			US-PATENT-3,623,114			US-PATENT-CLASS-307-247
		US-PATENT-CLASS-169-28			NASA-CASE-NPO-11333			US-PATENT-CLASS-307-288
N72-21405*	c 14	US-PATENT-CLASS-169-36	N72-22163*	c 08	US-PATENT-APPL-SN-78065	N72-22204*	c 09	US-PATENT-CLASS-325-29
		US-PATENT-3,613,794			US-PATENT-CLASS-178-52			US-PATENT-CLASS-325-492
		NASA-CASE-NPO-10832			US-PATENT-CLASS-179-15A			US-PATENT-CLASS-340-171
		US-PATENT-APPL-SN-22265			US-PATENT-CLASS-179-15BL			US-PATENT-CLASS-340-203
N72-21407*	c 14	US-PATENT-CLASS-73-141A	N72-22164*	c 08	US-PATENT-CLASS-307-243	N72-22205*	c 09	US-PATENT-3,621,290
		US-PATENT-3,623,360			US-PATENT-CLASS-307-251			NASA-CASE-XER-11046
		NASA-CASE-MFS-20642			US-PATENT-CLASS-328-104			US-PATENT-APPL-SN-810579
		US-PATENT-APPL-SN-873793			US-PATENT-CLASS-328-154			US-PATENT-CLASS-321-15
N72-21408*	c 14	US-PATENT-CLASS-73-147	N72-22165*	c 08	US-PATENT-3,614,327	N72-22206*	c 09	US-PATENT-CLASS-321-18
		US-PATENT-3,623,361			NASA-CASE-MSC-13110-1			US-PATENT-CLASS-321-2
		NASA-CASE-MSC-13332-1			US-PATENT-APPL-SN-23132			US-PATENT-CLASS-321-45
		US-PATENT-APPL-SN-77169			US-PATENT-CLASS-340-347AD			US-PATENT-CLASS-331-117
N72-21409*	c 14	US-PATENT-CLASS-250-43.5R	N72-22166*	c 08	US-PATENT-3,614,772	N72-22207*	c 09	US-PATENT-3,621,362
		US-PATENT-CLASS-250-83.3H			NASA-CASE-NPO-10745			NASA-CASE-LAR-10137-1
		US-PATENT-3,614,431			US-PATENT-APPL-SN-878730			US-PATENT-APPL-SN-881041
		NASA-CASE-MSC-12105-1			US-PATENT-CLASS-178-DIG.28			US-PATENT-CLASS-200-81R
N72-21462*	c 15	US-PATENT-APPL-SN-763743	N72-22167*	c 08	US-PATENT-CLASS-178-DIG.36	N72-22208*	c 09	US-PATENT-CLASS-200-82C
		US-PATENT-CLASS-356-17			US-PATENT-CLASS-178-6.8			US-PATENT-3,609,271
		US-PATENT-CLASS-356-18			US-PATENT-CLASS-178-7.2R			NASA-CASE-GSC-10064-1
		US-PATENT-3,614,228			US-PATENT-3,621,130			US-PATENT-APPL-SN-802812
N72-21463*	c 15	NASA-CASE-NPO-10679	N72-22195*	c 09	NASA-CASE-NPO-11104	N72-22209*	c 09	US-PATENT-CLASS-343-16M
		US-PATENT-APPL-SN-848282			US-PATENT-APPL-SN-860750			US-PATENT-CLASS-343-7.4
		US-PATENT-CLASS-74-89.15			US-PATENT-CLASS-235-150.52			US-PATENT-CLASS-343-779
		US-PATENT-3,614,898			US-PATENT-CLASS-235-150.53			US-PATENT-CLASS-343-786
N72-21464*	c 15	NASA-CASE-MFS-20413	N72-22196*	c 09	US-PATENT-CLASS-235-183	N72-22210*	c 09	US-PATENT-3,623,094
		US-PATENT-APPL-SN-69209			US-PATENT-CLASS-235-194			NASA-CASE-GSC-10878-1
		US-PATENT-CLASS-74-469			US-PATENT-CLASS-235-197			US-PATENT-APPL-SN-889423
		US-PATENT-3,620,095			US-PATENT-CLASS-340-347R			US-PATENT-CLASS-307-206
N72-21465*	c 15	NASA-CASE-ARC-10176-1	N72-22197*	c 08	US-PATENT-3,621,228	N72-22211*	c 09	US-PATENT-CLASS-307-215
		US-PATENT-APPL-SN-889583			NASA-CASE-NPO-10560			US-PATENT-CLASS-307-322
		US-PATENT-CLASS-324-57R			US-PATENT-APPL-SN-856282			US-PATENT-CLASS-307-323
		US-PATENT-CLASS-324-64			US-PATENT-CLASS-235-153			US-PATENT-3,621,277
N72-21466*	c 15	US-PATENT-CLASS-324-71R	N72-22198*	c 09	US-PATENT-CLASS-324-73AT	N72-22212*	c 09	NASA-CASE-NPO-12109
		US-PATENT-3,624,496			US-PATENT-CLASS-340-347AD			US-PATENT-APPL-SN-690172
		NASA-CASE-GSC-10218-1			US-PATENT-3,603,772			US-PATENT-CLASS-230-221
		US-PATENT-APPL-SN-15022			NASA-CASE-NPO-11082			US-PATENT-CLASS-230-54
N72-21489* #	c 15	US-PATENT-CLASS-141-23	N72-22199*	c 08	US-PATENT-APPL-SN-868529	N72-22213*	c 09	US-PATENT-3,612,391
		US-PATENT-CLASS-195-127			US-PATENT-CLASS-235-152			NASA-CASE-XLA-07430
		US-PATENT-CLASS-222-135			US-PATENT-CLASS-340-146.1			US-PATENT-APPL-SN-867841
		US-PATENT-CLASS-222-309			US-PATENT-CLASS-340-348			US-PATENT-CLASS-73-147
N72-21624*	c 21	US-PATENT-CLASS-222-71	N72-22200*	c 09	US-PATENT-3,609,327	N72-22214*	c 09	US-PATENT-3,620,076
		US-PATENT-CLASS-23-253R			NASA-CASE-MFS-14710			NASA-CASE-NPO-11013
		US-PATENT-CLASS-23-259			US-PATENT-APPL-SN-852843			US-PATENT-APPL-SN-858695
		US-PATENT-CLASS-73-425.6			US-PATENT-CLASS-74-105			US-PATENT-CLASS-42-1F
N72-21701*	c 26	US-PATENT-3,615,241	N72-22201*	c 09	US-PATENT-3,614,899	N72-22215*	c 09	US-PATENT-3,619,924
		NASA-CASE-NPO-10440			NASA-CASE-ERC-10075-2			NASA-CASE-LAR-10496-1
		US-PATENT-APPL-SN-756834			US-PATENT-APPL-SN-775870			US-PATENT-APPL-SN-12661
		US-PATENT-CLASS-204-130			US-PATENT-CLASS-321-14			US-PATENT-CLASS-73-141A
N72-21893* #	c 31	US-PATENT-CLASS-204-59	N72-22202*	c 09	US-PATENT-CLASS-321-19	N72-22216*	c 09	US-PATENT-3,611,798
		US-PATENT-3,616,338			US-PATENT-CLASS-321-2			NASA-CASE-ARC-10263-1
		NASA-CASE-XLA-10470			US-PATENT-CLASS-321-25			US-PATENT-APPL-SN-882122
		US-PATENT-APPL-SN-219436			US-PATENT-CLASS-323-56			US-PATENT-CLASS-73-398C
N72-21893* #	c 31	US-PATENT-CLASS-323-89C	N72-22203*	c 09	US-PATENT-3,614,587	N72-22217*	c 09	US-PATENT-3,620,083
		NASA-CASE-HQN-10439			NASA-CASE-LEW-10433-1			NASA-CASE-MFS-20890
		US-PATENT-APPL-SN-889551			US-PATENT-APPL-SN-849106			US-PATENT-APPL-SN-103229
		US-PATENT-CLASS-244-1SA			US-PATENT-CLASS-307-262			US-PATENT-CLASS-264-22
N72-21893* #	c 31	US-PATENT-3,637,170	N72-22204*	c 09	US-PATENT-CLASS-307-288MP	N72-22218*	c 09	US-PATENT-CLASS-29-421
		NASA-CASE-ERC-10119			US-PATENT-3,612,895			US-PATENT-CLASS-310-11
		US-PATENT-APPL-SN-825258			NASA-CASE-MFS-13687-2			US-PATENT-CLASS-310-42
		US-PATENT-CLASS-307-299			US-PATENT-APPL-SN-80369			US-PATENT-3,626,218
N72-21893* #	c 31	US-PATENT-CLASS-317-234V	N72-22205*	c 09	US-PATENT-CLASS-174-106R	N72-22219*	c 09	NASA-CASE-ARC-10154-1
		US-PATENT-CLASS-317-235R			US-PATENT-CLASS-174-117FF			US-PATENT-APPL-SN-793771
		US-PATENT-CLASS-331-107			US-PATENT-CLASS-174-36			US-PATENT-CLASS-73-67.2
		US-PATENT-CLASS-332-31			US-PATENT-3,612,743			US-PATENT-3,620,069
N72-21893* #	c 31	US-PATENT-3,614,557	N72-22206*	c 09	US-PATENT-3,612,743	N72-22220*	c 09	NASA-CASE-NPO-11002
		NASA-CASE-KSC-10622-1			NASA-CASE-ERC-10222			US-PATENT-APPL-SN-856328
		US-PATENT-APPL-SN-149983			US-PATENT-APPL-SN-832603			US-PATENT-CLASS-350-19
		US-PATENT-APPL-SN-776185			US-PATENT-CLASS-29-590			US-PATENT-CLASS-350-23
N72-22041*	c 03	US-PATENT-CLASS-29-572	N72-22207*	c 09	US-PATENT-3,621,565	N72-22221*	c 09	US-PATENT-CLASS-350-26
		US-PATENT-CLASS-29-572			NASA-CASE-FRC-10036			US-PATENT-CLASS-350-35
		US-PATENT-3,616,528			US-PATENT-APPL-SN-872602			US-PATENT-CLASS-350-36
		NASA-CASE-NPO-10747			US-PATENT-CLASS-307-237			US-PATENT-CLASS-350-49
N72-22042*	c 03	US-PATENT-APPL-SN-6616	N72-22208*	c 09	US-PATENT-CLASS-307-254	N72-22222*	c 09	US-PATENT-CLASS-350-52
		US-PATENT-CLASS-136-89			US-PATENT-CLASS-307-317			US-PATENT-3,612,645
		US-PATENT-3,615,853			US-PATENT-CLASS-328-1			NASA-CASE-MFS-21629
		NASA-CASE-ARC-10275-1			US-PATENT-CLASS-328-151			US-PATENT-APPL-SN-612265
N72-22092*	c 05	US-PATENT-CLASS-2-2.1A	N72-22209*	c 09	US-PATENT-CLASS-73-88.5	N72-22223*	c 09	US-PATENT-CLASS-324-61
		US-PATENT-3,636,564			US-PATENT-3,621,285			US-PATENT-CLASS-73-304
		NASA-CASE-MSC-12324-1			NASA-CASE-LEW-10387			US-PATENT-3,639,835
		US-PATENT-APPL-SN-63384			US-PATENT-APPL-SN-76899			NASA-CASE-XGS-03736
N72-22093*	c 05	US-PATENT-CLASS-128-295	N72-22210*	c 09	US-PATENT-CLASS-307-223B	N72-22224*	c 14	US-PATENT-APPL-SN-749320
		US-PATENT-CLASS-4-110			US-PATENT-CLASS-307-241			US-PATENT-CLASS-252-300
		US-PATENT-CLASS-4-99			US-PATENT-CLASS-307-252J			US-PATENT-CLASS-96-90PC
		US-PATENT-3,602,923			US-PATENT-CLASS-307-252K			US-PATENT-3,639,250
N72-22107*	c 06	NASA-CASE-NPO-10862	N72-22211*	c 09	US-PATENT-CLASS-307-284	N72-22244*	c 14	NASA-CASE-LAR-10523-1
		US-PATENT-APPL-SN-810815			US-PATENT-CLASS-307-304			US-PATENT-APPL-SN-32665
		US-PATENT-CLASS-260-877			US-PATENT-CLASS-307-317			US-PATENT-CLASS-250-203
		US-PATENT-3,639,510			US-PATENT-CLASS-328-106			US-PATENT-CLASS-350-16
N72-22127*	c 07	NASA-CASE-NPO-10303	N72-22212*	c 09	US-PATENT-3,621,287	N72-22245*	c 14	US-PATENT-CLASS-350-52
		US-PATENT-APPL-SN-848776			NASA-CASE-ARC-10136-1			US-PATENT-CLASS-356-248
		US-PATENT-CLASS-343-771			US-PATENT-APPL-SN-865106			US-PATENT-3,647,276
		US-PATENT-CLASS-343-797			US-PATENT-CLASS-128-2.1A			NASA-CASE-LAR-101014

				US-PATENT-APPL-SN-16808	N72-22771*	c 28	NASA-CASE-LEW-10835-1	N72-24753*	c 25	NASA-CASE-XNP-04167-2
				US-PATENT-CLASS-33-174S			US-PATENT-APPL-SN-67815			US-PATENT-APPL-SN-866442
				US-PATENT-CLASS-350-86			US-PATENT-CLASS-60-202			US-PATENT-CLASS-313-186
				US-PATENT-3,620,595			US-PATENT-3,620,018			US-PATENT-CLASS-313-212
N72-22482*	c 15			NASA-CASE-XLA-04897	N72-22772*	c 28	NASA-CASE-NPO-12072			US-PATENT-CLASS-313-2272
				US-PATENT-APPL-SN-880249			US-PATENT-APPL-SN-82647			US-PATENT-CLASS-313-231
				US-PATENT-CLASS-73-133			US-PATENT-CLASS-123-122AB			US-PATENT-CLASS-315-111
				US-PATENT-3,613,457			US-PATENT-CLASS-137-81.5			US-PATENT-CLASS-315-326
N72-22483*	c 15			NASA-CASE-XNP-09770-2			US-PATENT-CLASS-261-145			US-PATENT-CLASS-315-358
				US-PATENT-APPL-SN-864039			US-PATENT-3,640,256			US-PATENT-CLASS-331-94.5
				US-PATENT-CLASS-209-349	N72-22874*	c 31	NASA-CASE-NPO-10883	N72-25019*	c 03	US-PATENT-3,617,804
				US-PATENT-3,615,021			US-PATENT-APPL-SN-26573			NASA-CASE-NPO-10575
N72-22484*	c 15			NASA-CASE-LAR-10031			US-PATENT-CLASS-136-89			US-PATENT-APPL-SN-6615
				US-PATENT-APPL-SN-867851			US-PATENT-CLASS-312-257			US-PATENT-CLASS-156-250
				US-PATENT-CLASS-62-55.5			US-PATENT-3,620,846			US-PATENT-CLASS-156-510
				US-PATENT-3,625,018	N72-23048*	c 03	NASA-CASE-NPO-11388			US-PATENT-3,654,036
N72-22485*	c 15			NASA-CASE-MS-13512-1			US-PATENT-APPL-SN-119282	N72-25020*	c 03	NASA-CASE-GSC-11211-1
				US-PATENT-APPL-SN-73932			US-PATENT-CLASS-310-2			US-PATENT-APPL-SN-139528
				US-PATENT-CLASS-74-501R			US-PATENT-CLASS-321-2			US-PATENT-CLASS-235-92T
				US-PATENT-3,625,084			US-PATENT-CLASS-322-2			US-PATENT-CLASS-307-141.8
N72-22486*	c 15			NASA-CASE-KSC-10031			US-PATENT-3,648,152			US-PATENT-CLASS-320-48
				US-PATENT-APPL-SN-98773	N72-23085*	c 05	NASA-CASE-LAR-10102-1			US-PATENT-CLASS-324-29.5
				US-PATENT-CLASS-220-5R			US-PATENT-APPL-SN-13266			US-PATENT-3,663,938
				US-PATENT-CLASS-317-101DH			US-PATENT-CLASS-224-25A	N72-25021*	c 03	NASA-CASE-NPO-11118
				US-PATENT-CLASS-317-117			US-PATENT-3,649,921			US-PATENT-APPL-SN-8650
				US-PATENT-CLASS-317-120	N72-23171*	c 09	NASA-CASE-GSC-10221-1			US-PATENT-CLASS-214-90R
				US-PATENT-3,639,809			US-PATENT-APPL-SN-779025			US-PATENT-3,666,120
N72-22487*	c 15			NASA-CASE-GSC-10303			US-PATENT-CLASS-307-252N	N72-25119*	c 05	NASA-CASE-MS-12397-1
				US-PATENT-APPL-SN-802813			US-PATENT-CLASS-307-252R			US-PATENT-APPL-SN-785613
				US-PATENT-CLASS-29-473.1			US-PATENT-CLASS-307-259			US-PATENT-CLASS-2-115
				US-PATENT-3,619,896			US-PATENT-CLASS-307-305			US-PATENT-CLASS-2-2.1
N72-22488*	c 15			NASA-CASE-MS-11849-1			US-PATENT-3,621,294			US-PATENT-3,660,851
				US-PATENT-APPL-SN-6617	N72-23172*	c 09	NASA-CASE-LAR-10320-1	N72-25120*	c 05	NASA-CASE-MS-90153-2
				US-PATENT-CLASS-85-1			US-PATENT-APPL-SN-18427			US-PATENT-APPL-SN-844225
				US-PATENT-3,623,394			US-PATENT-CLASS-324-20R			US-PATENT-CLASS-106-209
N72-22489*	c 15			NASA-CASE-GSC-10518-1			US-PATENT-3,649,907			US-PATENT-CLASS-128-2.1
				US-PATENT-APPL-SN-789045	N72-23173*	c 09	NASA-CASE-ERC-10267			US-PATENT-CLASS-128-417
				US-PATENT-CLASS-417-152			US-PATENT-APPL-SN-41348			US-PATENT-CLASS-252-514
				US-PATENT-CLASS-55-446			US-PATENT-CLASS-235-197			US-PATENT-CLASS-264-104
				US-PATENT-CLASS-55-464			US-PATENT-CLASS-307-229			US-PATENT-3,665,064
				US-PATENT-3,623,828			US-PATENT-CLASS-328-145	N72-25121*	c 05	NASA-CASE-FRC-10029-2
N72-22490*	c 15			NASA-CASE-LEW-10856-1			US-PATENT-3,648,043			US-PATENT-APPL-SN-78704
				US-PATENT-APPL-SN-3417	N72-23215*	c 11	NASA-CASE-MFS-20710			US-PATENT-CLASS-156-264
				US-PATENT-CLASS-308-195			US-PATENT-APPL-SN-114848			US-PATENT-CLASS-156-308
				US-PATENT-3,620,585			US-PATENT-CLASS-13-20			US-PATENT-CLASS-29-25.14
N72-22491*	c 15			NASA-CASE-GSC-10913			US-PATENT-CLASS-13-31			US-PATENT-CLASS-29-25.18
				US-PATENT-APPL-SN-889558			US-PATENT-3,647,924			US-PATENT-CLASS-29-482
				US-PATENT-CLASS-219-158	N72-23457*	c 14	NASA-CASE-MS-12297			US-PATENT-CLASS-29-630A
				US-PATENT-CLASS-219-234			US-PATENT-APPL-SN-792623			US-PATENT-3,662,441
				US-PATENT-CLASS-219-85			US-PATENT-CLASS-55-493	N72-25122*	c 05	NASA-CASE-MS-13609-1
				US-PATENT-CLASS-228-57			US-PATENT-CLASS-55-498			US-PATENT-APPL-SN-94347
				US-PATENT-CLASS-29-628			US-PATENT-CLASS-55-502			US-PATENT-CLASS-128-2N
				US-PATENT-3,621,194			US-PATENT-CLASS-55-521			US-PATENT-3,662,744
N72-22492*	c 15			NASA-CASE-MFS-20482			US-PATENT-3,650,095	N72-25146*	c 06	NASA-CASE-NPO-11322
				US-PATENT-APPL-SN-6610			US-PATENT-CLASS-10242			US-PATENT-APPL-SN-87550
				US-PATENT-CLASS-29-472.9	N72-23497*	c 15	US-PATENT-APPL-SN-73834			US-PATENT-CLASS-250-43.5R
				US-PATENT-CLASS-29-473.1			US-PATENT-CLASS-219-109			US-PATENT-CLASS-73-23.1
				US-PATENT-3,602,979			US-PATENT-CLASS-219-234			US-PATENT-3,666,942
N72-22520* #	c 16			NASA-CASE-LAR-10815-1			US-PATENT-CLASS-219-85	N72-25147*	c 06	NASA-CASE-ARC-10325
				US-PATENT-APPL-SN-233587			US-PATENT-CLASS-324-65R			US-PATENT-APPL-SN-63610
N72-22530*	c 17			NASA-CASE-XLE-06461			US-PATENT-3,621,193			US-PATENT-CLASS-260-2.5FP
				US-PATENT-APPL-SN-853855			US-PATENT-CLASS-55-521			US-PATENT-3,663,464
				US-PATENT-CLASS-75-5B	N72-23581*	c 18	NASA-CASE-GSC-10361-1			NASA-CASE-MFS-13994-2
				US-PATENT-3,623,861			US-PATENT-APPL-SN-700040	N72-25148*	c 06	US-PATENT-APPL-SN-870689
N72-22535*	c 17			NASA-CASE-LEW-10874-1			US-PATENT-CLASS-106-84			US-PATENT-CLASS-260-348SC
				US-PATENT-APPL-SN-68024			US-PATENT-3,620,784			US-PATENT-3,660,434
				US-PATENT-CLASS-148-32.5	N72-23695*	c 23	NASA-CASE-HQN-10541-3			NASA-CASE-GSC-10565-1
				US-PATENT-CLASS-75-170			US-PATENT-APPL-SN-822089	N72-25149*	c 06	US-PATENT-APPL-SN-822039
				US-PATENT-3,620,718			US-PATENT-CLASS-350-171			US-PATENT-CLASS-195-103.5R
N72-22566*	c 18			NASA-CASE-MFS-20011			US-PATENT-3,606,522			US-PATENT-CLASS-195-28N
				US-PATENT-APPL-SN-813338	N72-23809*	c 28	NASA-CASE-XNP-09461			US-PATENT-CLASS-260-211.5
				US-PATENT-CLASS-106-286			US-PATENT-APPL-SN-670829			US-PATENT-3,660,240
				US-PATENT-CLASS-106-288B			US-PATENT-CLASS-239-418	N72-25150*	c 06	NASA-CASE-XLE-06774-2
				US-PATENT-CLASS-106-84			US-PATENT-CLASS-239-433			US-PATENT-APPL-SN-5114
				US-PATENT-3,620,791			US-PATENT-CLASS-239-543			US-PATENT-CLASS-117-132
N72-22567*	c 18			NASA-CASE-NPO-11091			US-PATENT-3,650,474			US-PATENT-CLASS-117-161
				US-PATENT-APPL-SN-860781	N72-23810*	c 28	NASA-CASE-NPO-11458			US-PATENT-CLASS-260-2.5
				US-PATENT-CLASS-260-2.1E			US-PATENT-APPL-SN-36926			US-PATENT-CLASS-260-92.1
				US-PATENT-3,629,161			US-PATENT-CLASS-60-271			US-PATENT-3,666,741
N72-22619*	c 21			NASA-CASE-ARC-10179-1			US-PATENT-3,648,461	N72-25151*	c 06	NASA-CASE-MFS-20979
				US-PATENT-APPL-SN-835058			US-PATENT-CLASS-11514-1			US-PATENT-APPL-SN-100774
				US-PATENT-CLASS-244-114	N72-24037*	c 03	US-PATENT-APPL-SN-820453			US-PATENT-CLASS-260-18S
				US-PATENT-CLASS-340-26			US-PATENT-CLASS-117-201			US-PATENT-CLASS-260-448.2D
				US-PATENT-3,624,598			US-PATENT-CLASS-136-89			US-PATENT-CLASS-260-46.5E
N72-22673*	c 23			NASA-CASE-XER-07896-2			US-PATENT-3,653,970			US-PATENT-CLASS-260-46.5G
				US-PATENT-APPL-SN-36819			US-PATENT-APPL-SN-774733			US-PATENT-CLASS-260-46.5P
				US-PATENT-CLASS-350-310	N72-24477*	c 14	NASA-CASE-ARC-10138-1			US-PATENT-3,666,718
				US-PATENT-3,620,606			US-PATENT-APPL-SN-774733	N72-25152*	c 06	NASA-CASE-NPO-10863-2
N72-22769*	c 28			NASA-CASE-ARC-10106-1			US-PATENT-CLASS-317-247			US-PATENT-APPL-SN-145026
				US-PATENT-APPL-SN-812998			US-PATENT-CLASS-324-61R			US-PATENT-CLASS-260-92.1
				US-PATENT-CLASS-244-3.22			US-PATENT-CLASS-73-355R			US-PATENT-3,663,521
				US-PATENT-3,612,442			US-PATENT-3,657,644	N72-25170*	c 07	NASA-CASE-LAR-10513-1
N72-22770*	c 28			NASA-CASE-LEW-10770-1	N72-24522*	c 15	NASA-CASE-NPO-11036			US-PATENT-APPL-SN-64723
				US-PATENT-APPL-SN-880246			US-PATENT-APPL-SN-41346			US-PATENT-CLASS-333-7
				US-PATENT-CLASS-60-202			US-PATENT-CLASS-264-92			US-PATENT-CLASS-333-81R
				US-PATENT-3,613,370			US-PATENT-3,658,974			US-PATENT-CLASS-333-98P

		US-PATENT-CLASS-333-98R			US-PATENT-3,659,184			US-PATENT-CLASS-73-422TC
		US-PATENT-CLASS-333-98S			NASA-CASE-ERC-10268			US-PATENT-3,662,604
		US-PATENT-3,649,935	N72-25252*	c 09	US-PATENT-APPL-SN-39342	N72-25409*	c 14	NASA-CASE-ERC-10174
N72-25171*	c 07	NASA-CASE-MFS-21042			US-PATENT-CLASS-321-11			US-PATENT-APPL-SN-39344
		US-PATENT-APPL-SN-86417			US-PATENT-CLASS-321-18			US-PATENT-CLASS-250-209
		US-PATENT-CLASS-102-34.4			US-PATENT-CLASS-321-19			US-PATENT-CLASS-250-226
		US-PATENT-CLASS-325-114			US-PATENT-CLASS-321-2			US-PATENT-CLASS-250-83.UV
		US-PATENT-CLASS-325-4			US-PATENT-CLASS-321-45ER			US-PATENT-CLASS-350-203
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-321-45R			US-PATENT-3,657,549
		US-PATENT-3,665,044			US-PATENT-3,663,940	N72-25410*	c 14	NASA-CASE-ERC-10292
N72-25172*	c 07	NASA-CASE-NPO-11358	N72-25253*	c 09	NASA-CASE-GSC-11126-1			US-PATENT-APPL-SN-45519
		US-PATENT-APPL-SN-116786			US-PATENT-APPL-SN-98640			US-PATENT-CLASS-350-160R
		US-PATENT-CLASS-179-15BV			US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-515
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-321-47			US-PATENT-CLASS-73-521
		US-PATENT-3,665,417			US-PATENT-CLASS-331-113A			US-PATENT-3,657,928
N72-25173*	c 07	NASA-CASE-ERC-10324			US-PATENT-3,663,941	N72-25411*	c 14	NASA-CASE-MS-15626-1
		US-PATENT-APPL-SN-54270	N72-25254*	c 09	NASA-CASE-NPO-10760			US-PATENT-APPL-SN-94374
		US-PATENT-CLASS-178-69.5			US-PATENT-APPL-SN-129071			US-PATENT-CLASS-116-114AH
		US-PATENT-CLASS-325-141			US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-12
		US-PATENT-CLASS-325-302			US-PATENT-CLASS-321-45R			US-PATENT-CLASS-73-492
		US-PATENT-CLASS-325-325			US-PATENT-CLASS-331-113A			US-PATENT-3,656,352
		US-PATENT-CLASS-325-38			US-PATENT-3,663,944	N72-25412*	c 14	NASA-CASE-MFS-15063
		US-PATENT-CLASS-325-51	N72-25255*	c 09	NASA-CASE-LAR-10620-1			US-PATENT-APPL-SN-51477
		US-PATENT-CLASS-325-55			US-PATENT-APPL-SN-125979			US-PATENT-CLASS-178-DIG.8
		US-PATENT-CLASS-325-58			US-PATENT-CLASS-310-10			US-PATENT-CLASS-178-6.8
		US-PATENT-CLASS-325-64			US-PATENT-CLASS-310-15			US-PATENT-CLASS-340-227R
		US-PATENT-CLASS-340-167			US-PATENT-3,663,843			US-PATENT-3,659,043
		US-PATENT-3,665,313	N72-25256*	c 09	NASA-CASE-XLA-02609	N72-25413*	c 14	NASA-CASE-GSC-10879-1
N72-25174*	c 07	NASA-CASE-NPO-11264			US-PATENT-APPL-SN-41347			US-PATENT-APPL-SN-889420
		US-PATENT-APPL-SN-36531			US-PATENT-CLASS-333-79			US-PATENT-CLASS-195-127
		US-PATENT-CLASS-343-762			US-PATENT-CLASS-339-143R			US-PATENT-3,666,631
		US-PATENT-CLASS-343-777			US-PATENT-CLASS-339-147R	N72-25414*	c 14	NASA-CASE-NPO-11311
		US-PATENT-CLASS-343-779			US-PATENT-3,663,929			US-PATENT-APPL-SN-57252
		US-PATENT-CLASS-343-786	N72-25257*	c 09	NASA-CASE-MS-12395			US-PATENT-CLASS-178-7.92
		US-PATENT-CLASS-343-853			US-PATENT-APPL-SN-134573			US-PATENT-CLASS-350-175FS
		US-PATENT-3,665,481			US-PATENT-CLASS-307-233			US-PATENT-3,663,753
N72-25206*	c 08	NASA-CASE-KSC-10397			US-PATENT-CLASS-324-186	N72-25428* #	c 14	NASA-CASE-HQN-10756-1
		US-PATENT-APPL-SN-25488			US-PATENT-CLASS-324-78D			US-PATENT-APPL-SN-236052
		US-PATENT-CLASS-235-154			US-PATENT-CLASS-328-136	N72-25447*	c 15	NASA-CASE-LEW-10489-1
		US-PATENT-CLASS-340-347DA			US-PATENT-CLASS-328-140			US-PATENT-APPL-SN-889682
		US-PATENT-3,648,275			US-PATENT-3,663,885			US-PATENT-CLASS-117-107
N72-25207*	c 08	NASA-CASE-NPO-11161	N72-25258*	c 09	NASA-CASE-LAR-10253-1			US-PATENT-CLASS-117-211
		US-PATENT-APPL-SN-889374			US-PATENT-APPL-SN-99175			US-PATENT-CLASS-117-217
		US-PATENT-CLASS-340-146.1			US-PATENT-CLASS-307-88.3			US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-330-4.5			US-PATENT-CLASS-117-93.16D
		US-PATENT-3,648,256			US-PATENT-3,663,886			US-PATENT-CLASS-29-599
N72-25208*	c 08	NASA-CASE-NPO-11338	N72-25259*	c 09	NASA-CASE-GSC-10695-1			US-PATENT-3,649,356
		US-PATENT-APPL-SN-89212			US-PATENT-APPL-SN-889422	N72-25448*	c 15	NASA-CASE-LEW-10450-1
		US-PATENT-CLASS-178-50			US-PATENT-CLASS-117-200			US-PATENT-APPL-SN-880271
		US-PATENT-CLASS-179-15BC			US-PATENT-CLASS-136-89			US-PATENT-CLASS-75-0.58B
		US-PATENT-CLASS-179-15FD			US-PATENT-CLASS-29-198			US-PATENT-CLASS-75-206
		US-PATENT-CLASS-325-62			US-PATENT-3,664,874			US-PATENT-CLASS-75-213
		US-PATENT-CLASS-332-21	N72-25260*	c 09	NASA-CASE-NPO-11283			US-PATENT-3,649,242
		US-PATENT-3,659,053			US-PATENT-APPL-SN-118270	N72-25450*	c 15	NASA-CASE-NPO-11202
N72-25209*	c 08	NASA-CASE-NPO-11194			US-PATENT-CLASS-310-4			US-PATENT-APPL-SN-66004
		US-PATENT-APPL-SN-63532			US-PATENT-3,663,839			US-PATENT-CLASS-285-DIG.21
		US-PATENT-CLASS-343-12R	N72-25261*	c 09	NASA-CASE-ERC-10224			US-PATENT-CLASS-285-3
		US-PATENT-CLASS-343-14			US-PATENT-APPL-SN-868775			US-PATENT-CLASS-285-316
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-29-492			US-PATENT-CLASS-285-33
		US-PATENT-3,659,292			US-PATENT-CLASS-29-497			US-PATENT-CLASS-339-45M
N72-25210*	c 08	NASA-CASE-NPO-10636			US-PATENT-CLASS-29-498			US-PATENT-CLASS-339-91B
		US-PATENT-APPL-SN-77221			US-PATENT-CLASS-29-502			US-PATENT-3,656,781
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-29-589	N72-25451*	c 15	NASA-CASE-NPO-10606
		US-PATENT-CLASS-340-146.1AL			US-PATENT-CLASS-29-628			US-PATENT-APPL-SN-8636
		US-PATENT-3,662,337			US-PATENT-3,665,589			US-PATENT-CLASS-251-360
N72-25247*	c 09	NASA-CASE-LAR-10163-1	N72-25262*	c 09	NASA-CASE-NPO-11078			US-PATENT-3,658,295
		US-PATENT-APPL-SN-73310			US-PATENT-APPL-SN-82280	N72-25452*	c 15	NASA-CASE-LEW-10965-1
		US-PATENT-CLASS-343-708			US-PATENT-CLASS-307-103			US-PATENT-APPL-SN-876588
		US-PATENT-CLASS-343-771			US-PATENT-CLASS-307-83			US-PATENT-CLASS-117-124C
		US-PATENT-CLASS-343-873			US-PATENT-CLASS-323-48			US-PATENT-CLASS-117-152
		US-PATENT-3,653,052			US-PATENT-CLASS-323-82			US-PATENT-CLASS-117-16R
N72-25248*	c 09	NASA-CASE-NPO-11342			US-PATENT-3,663,828			US-PATENT-CLASS-117-37
		US-PATENT-APPL-SN-89209	N72-25284*	c 11	NASA-CASE-LAR-10507-1			US-PATENT-CLASS-117-47R
		US-PATENT-CLASS-340-172.5			US-PATENT-APPL-SN-874177			US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-324A			US-PATENT-CLASS-195-127			US-PATENT-CLASS-117-93.3
		US-PATENT-3,648,250			US-PATENT-3,649,462			US-PATENT-CLASS-204-157.18AG
N72-25249*	c 09	NASA-CASE-GSC-10656-1	N72-25287*	c 11	NASA-CASE-LAR-10546-1			US-PATENT-CLASS-204-49
		US-PATENT-APPL-SN-59969			US-PATENT-APPL-SN-32664			US-PATENT-CLASS-250-65F
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-287-54A			US-PATENT-CLASS-96-36.2
		US-PATENT-CLASS-323-DIG.1			US-PATENT-CLASS-52-648			US-PATENT-3,658,569
		US-PATENT-CLASS-323-17			US-PATENT-CLASS-52-655	N72-25453*	c 15	NASA-CASE-KSC-10513
		US-PATENT-CLASS-323-22T			US-PATENT-3,665,670			US-PATENT-APPL-SN-61535
		US-PATENT-3,621,372	N72-25288*	c 11	NASA-CASE-MFS-20434			US-PATENT-CLASS-187-1
N72-25250*	c 09	NASA-CASE-KSC-10565			US-PATENT-APPL-SN-55534			US-PATENT-CLASS-187-20
		US-PATENT-APPL-SN-98517			US-PATENT-CLASS-73-140			US-PATENT-CLASS-187-95
		US-PATENT-CLASS-315-135			US-PATENT-CLASS-73-161			US-PATENT-CLASS-254-190
		US-PATENT-CLASS-315-349			US-PATENT-3,665,758			US-PATENT-3,666,051
		US-PATENT-CLASS-330-2	N72-25292*	c 12	NASA-CASE-NPO-11556	N72-25454*	c 15	NASA-CASE-MS-12233-1
		US-PATENT-CLASS-330-59			US-PATENT-APPL-SN-82648			US-PATENT-APPL-SN-73422
		US-PATENT-CLASS-340-332			US-PATENT-CLASS-210-188			US-PATENT-CLASS-52-169
		US-PATENT-3,659,148			US-PATENT-CLASS-310-11			US-PATENT-CLASS-52-173
N72-25251*	c 09	NASA-CASE-ERC-10048			US-PATENT-3,648,083			US-PATENT-CLASS-52-594
		US-PATENT-APPL-SN-10329	N72-25323*	c 13	NASA-CASE-NPO-11373			US-PATENT-3,665,669
		US-PATENT-CLASS-307-261			US-PATENT-APPL-SN-81095	N72-25455*	c 15	NASA-CASE-NPO-11095
		US-PATENT-CLASS-321-18			US-PATENT-CLASS-73-421.5R			US-PATENT-APPL-SN-19585
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-422GC			US-PATENT-CLASS-239-424

		US-PATENT-CLASS-60-258				US-PATENT-CLASS-73-15R			US-PATENT-CLASS-73-103
		US-PATENT-CLASS-60-39.74A				US-PATENT-3,665,750			US-PATENT-CLASS-73-71.6
		US-PATENT-3,662,547	N72-26031*	c 03		NASA-CASE-NPO-10753			US-PATENT-3,670,563
N72-25456*	c 15	NASA-CASE-NPO-11222				US-PATENT-APPL-SN-844355	N72-27484*	c 15	NASA-CASE-NPO-10721
		US-PATENT-APPL-SN-59893				US-PATENT-CLASS-136-202			US-PATENT-APPL-SN-59968
		US-PATENT-CLASS-310-68				US-PATENT-3,666,566			US-PATENT-CLASS-248-188.4
		US-PATENT-CLASS-310-80	N72-26371*	c 15		NASA-CASE-NPO-10244			US-PATENT-3,669,393
		US-PATENT-CLASS-310-83				US-PATENT-APPL-SN-43327	N72-27485*	c 15	NASA-CASE-XLA-09843
		US-PATENT-3,660,704				US-PATENT-CLASS-308-2A			US-PATENT-APPL-SN-60876
N72-25457*	c 15	NASA-CASE-ERC-10325				US-PATENT-CLASS-73-136R			US-PATENT-CLASS-83-522
		US-PATENT-APPL-SN-43884				US-PATENT-3,664,185			US-PATENT-CLASS-83-562
		US-PATENT-CLASS-324-158D	N72-27053*	c 03		NASA-CASE-GSC-10344-1			US-PATENT-CLASS-83-563
		US-PATENT-CLASS-324-158T				US-PATENT-APPL-SN-785078			US-PATENT-CLASS-83-588
		US-PATENT-3,665,307				US-PATENT-CLASS-136-89			US-PATENT-CLASS-83-8
N72-25485*	c 16	NASA-CASE-ERC-10283				US-PATENT-3,672,999			US-PATENT-3,668,956
		US-PATENT-APPL-SN-39185	N72-27102*	c 05		NASA-CASE-LAR-10365-1	N72-27728*	c 23	NASA-CASE-ARC-10160-1
		US-PATENT-CLASS-331-94.5				US-PATENT-APPL-SN-3151			US-PATENT-APPL-SN-867842
		US-PATENT-CLASS-332-7.51				US-PATENT-CLASS-210-103			US-PATENT-CLASS-178-DIG.20
		US-PATENT-3,659,225				US-PATENT-CLASS-210-104			US-PATENT-CLASS-178-6.5
N72-25539*	c 18	NASA-CASE-LEW-10424-2.2				US-PATENT-CLASS-210-110			US-PATENT-CLASS-350-138
		US-PATENT-APPL-SN-15222				US-PATENT-CLASS-210-137			US-PATENT-3,670,097
		US-PATENT-CLASS-75-DIG.1				US-PATENT-3,670,890	N72-27784*	c 26	NASA-CASE-LAR-10836-1
		US-PATENT-CLASS-75-208	N72-27103*	c 05		NASA-CASE-MS-13648			US-PATENT-APPL-SN-138227
		US-PATENT-CLASS-75-211				US-PATENT-APPL-SN-87222			US-PATENT-CLASS-350-161
		US-PATENT-CLASS-75-226				US-PATENT-CLASS-128-DIG.4			US-PATENT-3,671,105
N72-25540*	c 18	US-PATENT-3,653,882				US-PATENT-CLASS-128-2.1E	N72-27959*	c 33	NASA-CASE-LAR-10800-1
		NASA-CASE-ERC-10364				US-PATENT-CLASS-128-417			US-PATENT-APPL-SN-154094
		US-PATENT-APPL-SN-55537				US-PATENT-3,669,110			US-PATENT-CLASS-73-35
		US-PATENT-CLASS-161-127	N72-27144*	c 06		NASA-CASE-NPO-10768-2			US-PATENT-3,670,559
		US-PATENT-CLASS-161-68				US-PATENT-APPL-SN-770398	N72-28025*	c 03	NASA-CASE-NPO-10633
		US-PATENT-CLASS-161-7				US-PATENT-APPL-SN-99524			US-PATENT-APPL-SN-885521
		US-PATENT-CLASS-52-DIG.10				US-PATENT-CLASS-260-535H			US-PATENT-CLASS-165-20
		US-PATENT-CLASS-52-80				US-PATENT-CLASS-260-77.5AP			US-PATENT-CLASS-165-3
		US-PATENT-3,663,347				US-PATENT-3,671,497			US-PATENT-CLASS-62-93
N72-25541*	c 18	NASA-CASE-ERC-10363	N72-27151* #	c 06		NASA-CASE-NPO-10767-2			US-PATENT-3,675,712
		US-PATENT-APPL-SN-57253				US-PATENT-APPL-SN-241061	N72-28225*	c 09	NASA-CASE-MFS-20757
		US-PATENT-CLASS-161-127				NASA-CASE-LEW-10330-1			US-PATENT-APPL-SN-136006
		US-PATENT-CLASS-161-68	N72-27226*	c 09		US-PATENT-APPL-SN-110402			US-PATENT-CLASS-339-176MF
		US-PATENT-CLASS-161-7				US-PATENT-CLASS-336-198			US-PATENT-CLASS-339-218M
		US-PATENT-CLASS-52-DIG.10				US-PATENT-CLASS-336-220			US-PATENT-CLASS-339-75MP
		US-PATENT-CLASS-52-80				US-PATENT-CLASS-336-60			US-PATENT-CLASS-339-94M
		US-PATENT-3,663,346				US-PATENT-3,648,209			US-PATENT-3,670,290
N72-25595*	c 21	NASA-CASE-MS-13397-1	N72-27227*	c 09		NASA-CASE-KSC-10644	N72-28240*	c 10	NASA-CASE-ARC-10265-1
		US-PATENT-APPL-SN-59966				US-PATENT-APPL-SN-114849			US-PATENT-APPL-SN-64709
		US-PATENT-CLASS-244-1SA				US-PATENT-CLASS-307-118			US-PATENT-CLASS-324-41
		US-PATENT-CLASS-244-23A				US-PATENT-CLASS-307-92			US-PATENT-CLASS-340-258
		US-PATENT-3,662,973				US-PATENT-CLASS-340-240			US-PATENT-3,676,772
N72-25619*	c 23	NASA-CASE-NPO-10634	N72-27228*	c 09		US-PATENT-3,673,424	N72-28241*	c 10	NASA-CASE-GSC-10786-1
		US-PATENT-APPL-SN-112999				NASA-CASE-NPO-10542			US-PATENT-APPL-SN-773072
		US-PATENT-CLASS-62-475				US-PATENT-APPL-SN-767741			US-PATENT-CLASS-330-29
		US-PATENT-CLASS-62-6				US-PATENT-CLASS-310-4			US-PATENT-3,533,006
		US-PATENT-CLASS-62-80				US-PATENT-3,673,440	N72-28436*	c 14	NASA-CASE-XLA-06683
		US-PATENT-CLASS-62-85	N72-27246*	c 10		NASA-CASE-ERC-10015-2			US-PATENT-APPL-SN-10827
		US-PATENT-3,666,313				US-PATENT-APPL-SN-763744			US-PATENT-CLASS-33-15A
N72-25679*	c 26	NASA-CASE-XER-07895				US-PATENT-APPL-SN-97343			US-PATENT-CLASS-33-75R
		US-PATENT-APPL-SN-651627				US-PATENT-CLASS-313-309			US-PATENT-3,675,332
		US-PATENT-CLASS-317-234J				US-PATENT-CLASS-313-336	N72-28437*	c 14	NASA-CASE-ERC-10081
		US-PATENT-CLASS-317-235A				US-PATENT-CLASS-313-351			US-PATENT-APPL-SN-877990
		US-PATENT-CLASS-317-235AJ				US-PATENT-CLASS-315-36			US-PATENT-CLASS-325-363
		US-PATENT-CLASS-317-235R				US-PATENT-3,671,798			US-PATENT-CLASS-343-100ME
		US-PATENT-CLASS-331-107G	N72-27262*	c 11		NASA-CASE-MFS-20620			US-PATENT-CLASS-343-112D
		US-PATENT-3,667,010				US-PATENT-APPL-SN-154935			US-PATENT-CLASS-73-355
N72-25680*	c 26	NASA-CASE-ERC-10275				US-PATENT-CLASS-73-117.1			US-PATENT-3,665,467
		US-PATENT-APPL-SN-47061				US-PATENT-CLASS-73-432SD	N72-28438*	c 14	NASA-CASE-XLA-04980-2
		US-PATENT-CLASS-324-92				US-PATENT-3,670,564			US-PATENT-APPL-SN-577548
		US-PATENT-CLASS-324-96	N72-27408*	c 14		NASA-CASE-NPO-11147			US-PATENT-APPL-SN-763040
		US-PATENT-CLASS-340-324R				US-PATENT-APPL-SN-63195			US-PATENT-CLASS-148-187
		US-PATENT-CLASS-350-150				US-PATENT-CLASS-324-79R			US-PATENT-3,549,435
		US-PATENT-CLASS-350-160R				US-PATENT-CLASS-328-189	N72-28495*	c 15	NASA-CASE-MFS-14405
		US-PATENT-3,667,039				US-PATENT-CLASS-331-44			US-PATENT-APPL-SN-73283
N72-25699*	c 27	NASA-CASE-NPO-12000				US-PATENT-3,670,241			US-PATENT-CLASS-214-1CM
		US-PATENT-APPL-SN-74861	N72-27409*	c 14		NASA-CASE-NPO-11201			US-PATENT-CLASS-74-469
		US-PATENT-CLASS-149-19				US-PATENT-APPL-SN-77220			US-PATENT-3,631,737
		US-PATENT-CLASS-149-20				US-PATENT-CLASS-250-203R	N72-28496*	c 15	NASA-CASE-MFS-20433
		US-PATENT-CLASS-149-36				US-PATENT-CLASS-250-225			US-PATENT-APPL-SN-114847
		US-PATENT-CLASS-149-92				US-PATENT-CLASS-350-147			US-PATENT-CLASS-52-1
		US-PATENT-3,658,608				US-PATENT-CLASS-356-141			US-PATENT-CLASS-52-573
N72-25842*	c 31	NASA-CASE-MS-12372-1				US-PATENT-CLASS-356-152			US-PATENT-3,675,376
		US-PATENT-APPL-SN-64391				US-PATENT-3,670,168	N72-28521*	c 16	NASA-CASE-NPO-11437
		US-PATENT-CLASS-95-12.5	N72-27410*	c 14		NASA-CASE-XLE-05230			US-PATENT-APPL-SN-63144
		US-PATENT-3,662,661				US-PATENT-APPL-SN-877717			US-PATENT-CLASS-330-4
N72-25877*	c 32	NASA-CASE-LAR-10270-1				US-PATENT-CLASS-136-233			US-PATENT-CLASS-331-94
		US-PATENT-APPL-SN-60881				US-PATENT-3,671,329			US-PATENT-3,676,787
		US-PATENT-CLASS-73-100	N72-27411*	c 14		NASA-CASE-MS-12293-1	N72-28535*	c 17	NASA-CASE-XLE-06461-2
		US-PATENT-CLASS-73-15.6				US-PATENT-APPL-SN-59956			US-PATENT-APPL-SN-156778
		US-PATENT-3,665,751				US-PATENT-CLASS-250-205			US-PATENT-APPL-SN-853855
N72-25911*	c 33	NASA-CASE-LEW-10359				US-PATENT-CLASS-315-151			US-PATENT-CLASS-266-24
		US-PATENT-APPL-SN-47063				US-PATENT-CLASS-315-156			US-PATENT-3,675,910
		US-PATENT-CLASS-102-105				US-PATENT-CLASS-315-158	N72-28536*	c 17	NASA-CASE-XLE-03940-2
		US-PATENT-CLASS-60-200A				US-PATENT-CLASS-315-297			US-PATENT-APPL-SN-539255
		US-PATENT-CLASS-60-265				US-PATENT-CLASS-315-307			US-PATENT-APPL-SN-793657
		US-PATENT-CLASS-60-267				US-PATENT-CLASS-315-310			US-PATENT-CLASS-29-182.5
		US-PATENT-CLASS-62-467				US-PATENT-CLASS-315-311			US-PATENT-3,676,084
		US-PATENT-3,656,317	N72-25913*	c 33		NASA-CASE-XMS-09690	N72-28761*	c 26	NASA-CASE-NPO-11775
		NASA-CASE-XMS-09690				US-PATENT-APPL-SN-853641			US-PATENT-APPL-SN-162230
		US-PATENT-APPL-SN-853641							US-PATENT-CLASS-29-570

N72-28762*	c 26	US-PATENT-CLASS-317-230	US-PATENT-CLASS-118-49.1	N73-12244*	c 10	NASA-CASE-NPO-11631
		US-PATENT-CLASS-317-261	US-PATENT-CLASS-204-298			US-PATENT-APPL-SN-123253
		US-PATENT-3,676,754	US-PATENT-CLASS-219-121P			US-PATENT-CLASS-179-1P
		NASA-CASE-LAR-10294-1	US-PATENT-CLASS-219-273			US-PATENT-CLASS-325-473
N72-32688*	c 25	US-PATENT-APPL-SN-796685	US-PATENT-3,690,291			US-PATENT-CLASS-325-480
		US-PATENT-CLASS-106-39	NASA-CASE-MFS-20589	N73-12264*	c 11	US-PATENT-3,700,812
		US-PATENT-CLASS-106-46	US-PATENT-APPL-SN-103077			NASA-CASE-LAR-10348-1
		US-PATENT-CLASS-117-212	US-PATENT-CLASS-313-231			US-PATENT-APPL-SN-70032
N72-29172*	c 09	US-PATENT-CLASS-117-217	US-PATENT-CLASS-315-111			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-29-25.42	US-PATENT-3,693,002			US-PATENT-3,695,101
		US-PATENT-3,649,353	NASA-CASE-ERC-10338	N73-12265*	c 11	NASA-CASE-NPO-10890
		NASA-CASE-LAR-10511-1	US-PATENT-APPL-SN-50339			US-PATENT-APPL-SN-99903
N72-29464*	c 14	US-PATENT-APPL-SN-41345	US-PATENT-CLASS-23-109			US-PATENT-CLASS-137-559
		US-PATENT-CLASS-333-24R	US-PATENT-3,679,360			US-PATENT-CLASS-219-203
		US-PATENT-CLASS-333-98P	NASA-CASE-MSC-13540-1			US-PATENT-CLASS-219-522
		US-PATENT-CLASS-333-98R	US-PATENT-APPL-SN-68023			US-PATENT-CLASS-52-171
N72-33096*	c 05	US-PATENT-3,676,809	US-PATENT-CLASS-99-80PS			US-PATENT-3,696,833
		NASA-CASE-ARC-10017-1	US-PATENT-3,692,533	N73-12444*	c 14	NASA-CASE-GSC-10903-1
		US-PATENT-APPL-SN-55536	NASA-CASE-MSC-12259-2			US-PATENT-APPL-SN-114846
		US-PATENT-CLASS-250-41.9D	US-PATENT-APPL-SN-61895			US-PATENT-CLASS-250-41.9G
N72-29488*	c 15	US-PATENT-CLASS-250-71.5R	US-PATENT-APPL-SN-853763			US-PATENT-CLASS-250-41.9S
		US-PATENT-CLASS-313-356	US-PATENT-CLASS-325-373			US-PATENT-CLASS-73-421.5
		US-PATENT-3,676,674	US-PATENT-3,694,753			US-PATENT-3,700,893
		NASA-CASE-XLE-10326-2	NASA-CASE-NPO-11630	N73-12445*	c 14	NASA-CASE-LAR-10728-1
N72-33172*	c 08	US-PATENT-APPL-SN-54540	US-PATENT-APPL-SN-143078			US-PATENT-APPL-SN-112998
		US-PATENT-APPL-SN-723465	US-PATENT-CLASS-179-15.55R			US-PATENT-CLASS-250-83.3H
		US-PATENT-CLASS-277-25	US-PATENT-3,694,581			US-PATENT-CLASS-250-83.3R
		US-PATENT-CLASS-277-27	NASA-CASE-NPO-11129			US-PATENT-CLASS-250-83R
N72-33204*	c 09	US-PATENT-CLASS-277-74	US-PATENT-APPL-SN-883523			US-PATENT-3,700,897
		US-PATENT-3,675,935	US-PATENT-CLASS-307-262	N73-12446*	c 14	NASA-CASE-NPO-11239
		NASA-CASE-MSC-13335-1	US-PATENT-CLASS-307-295			US-PATENT-APPL-SN-89211
		US-PATENT-APPL-SN-55806	US-PATENT-CLASS-328-155			US-PATENT-CLASS-356-106
N72-33205*	c 09	US-PATENT-CLASS-55-16	US-PATENT-CLASS-328-24			US-PATENT-CLASS-356-114
		US-PATENT-CLASS-55-55	US-PATENT-3,621,406			US-PATENT-3,700,334
		US-PATENT-3,678,654	NASA-CASE-GSC-10835-1	N73-12447*	c 14	NASA-CASE-NPO-11493
		NASA-CASE-ARC-10308-1	US-PATENT-APPL-SN-116778			US-PATENT-APPL-SN-151413
N72-33230*	c 10	US-PATENT-APPL-SN-134568	US-PATENT-CLASS-317-101A			US-PATENT-CLASS-136-224
		US-PATENT-CLASS-250-43.5R	US-PATENT-CLASS-317-235			US-PATENT-3,700,503
		US-PATENT-CLASS-356-51	US-PATENT-CLASS-317-235A	N73-12486*	c 15	NASA-CASE-KSC-10615
		US-PATENT-3,679,899	US-PATENT-CLASS-317-235AJ			US-PATENT-APPL-SN-103078
N72-33377*	c 14	NASA-CASE-NPO-11016	US-PATENT-3,694,700			US-PATENT-CLASS-244-15B
		US-PATENT-APPL-SN-889584	NASA-CASE-GSC-11340-1			US-PATENT-CLASS-244-135
		US-PATENT-CLASS-235-150.1	US-PATENT-APPL-SN-107379			US-PATENT-CLASS-62-45
		US-PATENT-CLASS-235-151.1	US-PATENT-CLASS-330-12			US-PATENT-CLASS-62-7
N72-33476*	c 15	US-PATENT-CLASS-235-92MT	US-PATENT-CLASS-331-115	N73-12487*	c 15	US-PATENT-3,697,021
		US-PATENT-CLASS-323-19	US-PATENT-CLASS-331-116R			NASA-CASE-FRC-10019
		US-PATENT-CLASS-340-347AD	US-PATENT-CLASS-333-80T			US-PATENT-APPL-SN-880398
		US-PATENT-3,681,581	US-PATENT-3,693,105			US-PATENT-CLASS-204-192
N72-33477*	c 15	NASA-CASE-ERC-10214	US-PATENT-3,700,575	N73-12488*	c 15	US-PATENT-3,700,575
		US-PATENT-APPL-SN-863914	NASA-CASE-MFS-20760			NASA-CASE-ARC-10345-1
		US-PATENT-CLASS-343-770	US-PATENT-APPL-SN-99174			US-PATENT-APPL-SN-193671
		US-PATENT-CLASS-343-771	US-PATENT-CLASS-73-141AB			US-PATENT-CLASS-287-85R
N72-31273*	c 10	US-PATENT-CLASS-343-786	US-PATENT-CLASS-73-85			US-PATENT-CLASS-308-2A
		US-PATENT-CLASS-343-797	US-PATENT-3,693,418			US-PATENT-CLASS-74-5F
		US-PATENT-CLASS-343-853	NASA-CASE-XGS-07805			US-PATENT-3,700,291
		US-PATENT-3,680,142	US-PATENT-APPL-SN-104884	N73-12489*	c 15	NASA-CASE-MSC-12357
N72-31446*	c 14	NASA-CASE-KSC-10647-1	US-PATENT-CLASS-308-10			US-PATENT-APPL-SN-662763
		US-PATENT-APPL-SN-774691	US-PATENT-3,694,041			US-PATENT-CLASS-264-102
		US-PATENT-CLASS-178-7.5E	NASA-CASE-NPO-11340			US-PATENT-CLASS-264-28
		US-PATENT-CLASS-315-22R	US-PATENT-APPL-SN-147997			US-PATENT-CLASS-264-36
N72-31483*	c 15	US-PATENT-CLASS-315-30R	US-PATENT-CLASS-137-13			US-PATENT-CLASS-264-40
		US-PATENT-CLASS-330-27R	US-PATENT-CLASS-137-81.5			US-PATENT-3,697,630
		US-PATENT-3,678,191	US-PATENT-CLASS-60-1	N73-12492* #	c 15	NASA-CASE-XLA-8914
		NASA-CASE-ERC-10087-2	US-PATENT-CLASS-60-36			US-PATENT-APPL-SN-810576
N72-31637*	c 21	US-PATENT-3,680,830	US-PATENT-3,693,346	N73-12495* #	c 15	US-PATENT-CLASS-264-102
		NASA-CASE-GSC-10945-1	NASA-CASE-LEW-10518-1			US-PATENT-CLASS-264-28
		US-PATENT-APPL-SN-75431	US-PATENT-APPL-SN-863280			US-PATENT-CLASS-264-36
		US-PATENT-CLASS-60-23	US-PATENT-CLASS-176-11	N73-12547*	c 17	US-PATENT-CLASS-74-5F
N72-32169*	c 07	US-PATENT-3,686,542	US-PATENT-3,694,313			US-PATENT-3,700,291
		NASA-CASE-LAR-10061-1	NASA-CASE-GSC-11291-1			US-PATENT-APPL-SN-136085
		US-PATENT-APPL-SN-104047	US-PATENT-APPL-SN-102412			US-PATENT-CLASS-23-230R
		US-PATENT-CLASS-251-331	US-PATENT-CLASS-250-83.6R	N73-12604*	c 18	US-PATENT-3,701,631
N72-32452*	c 14	US-PATENT-CLASS-251-86	US-PATENT-3,694,655			NASA-CASE-MFS-20408
		US-PATENT-3,680,830	US-PATENT-CLASS-340-146.1AL			US-PATENT-APPL-SN-71048
		NASA-CASE-GSC-10945-1	US-PATENT-3,700,869			US-PATENT-CLASS-161-93
		US-PATENT-APPL-SN-75431	NASA-CASE-KSC-10595	N73-12884*	c 30	US-PATENT-3,700,538
N72-32487*	c 15	US-PATENT-CLASS-60-26	US-PATENT-APPL-SN-95183			NASA-CASE-MSC-12391
		US-PATENT-3,678,685	US-PATENT-CLASS-235-152			US-PATENT-APPL-SN-106465
		NASA-CASE-NPO-11361	US-PATENT-CLASS-331-78			US-PATENT-CLASS-244-155
		US-PATENT-APPL-SN-112988	US-PATENT-CLASS-340-146.1AL	N73-13008*	c 02	US-PATENT-3,700,193
N73-12175*	c 08	US-PATENT-CLASS-343-837	US-PATENT-APPL-SN-98772			NASA-CASE-GSC-11077-1
		US-PATENT-CLASS-343-840	US-PATENT-CLASS-235-155			US-PATENT-APPL-SN-127618
		US-PATENT-CLASS-343-915	US-PATENT-CLASS-340-347DD			US-PATENT-CLASS-244-32
		US-PATENT-3,680,144	US-PATENT-3,697,733	N73-13114*	c 05	US-PATENT-3,698,667
N73-12211*	c 09	NASA-CASE-MFS-15162	NASA-CASE-NPO-11371			NASA-CASE-MSC-13604-1
		US-PATENT-APPL-SN-100639	US-PATENT-APPL-SN-117575			US-PATENT-APPL-SN-78717
		US-PATENT-CLASS-350-79	US-PATENT-CLASS-340-146.1AQ			US-PATENT-CLASS-128-2N
		US-PATENT-CLASS-356-241	US-PATENT-CLASS-340-146.1AV			US-PATENT-CLASS-273-1E
N73-12214* #	c 09	US-PATENT-3,694,094	US-PATENT-3,697,950			US-PATENT-CLASS-35-22R
		NASA-CASE-LAR-10541-1	NASA-CASE-ERC-10412-1	N73-13128*	c 06	US-PATENT-3,698,385
		US-PATENT-APPL-SN-138229	US-PATENT-APPL-SN-72024			NASA-CASE-GSC-11214-1
		US-PATENT-CLASS-343-11R	US-PATENT-CLASS-343-11VB			US-PATENT-APPL-SN-115134
N73-13129*	c 06	US-PATENT-CLASS-343-5DP	US-PATENT-CLASS-343-11R			US-PATENT-CLASS-117-35R
		US-PATENT-3,696,418	US-PATENT-CLASS-343-11VB			US-PATENT-3,702,775
		NASA-CASE-NPO-13091-1	US-PATENT-CLASS-343-5DP			NASA-CASE-XNP-08124-2
		US-PATENT-APPL-SN-290022	US-PATENT-3,696,418	N73-13129*	c 06	US-PATENT-APPL-SN-97829
N73-13129*	c 06	NASA-CASE-NPO-13091-1	US-PATENT-CLASS-343-5DP			US-PATENT-CLASS-75-66
		US-PATENT-APPL-SN-290022	US-PATENT-3,696,418			US-PATENT-3,702,762
		NASA-CASE-NPO-13091-1	US-PATENT-APPL-SN-290022			
		US-PATENT-APPL-SN-290022	US-PATENT-3,696,418			

N73-13149*	c 07	NASA-CASE-NPO-11302-1 US-PATENT-APPL-SN-70967 US-PATENT-CLASS-178-69.5 US-PATENT-CLASS-235-150.53 US-PATENT-CLASS-235-181 US-PATENT-CLASS-325-325 US-PATENT-CLASS-340-146.1 US-PATENT-3,701,894	N73-13467*	c 15	NASA-CASE-NPO-11369 US-PATENT-APPL-SN-129072 US-PATENT-CLASS-60-1 US-PATENT-CLASS-60-23 US-PATENT-CLASS-60-37 US-PATENT-3,702,532	US-PATENT-CLASS-29-203V US-PATENT-3,705,288		
N73-13187*	c 08	NASA-CASE-GSC-10975-1 US-PATENT-APPL-SN-100996 US-PATENT-CLASS-340-172.5 US-PATENT-3,702,463	N73-13489*	c 16	NASA-CASE-HQN-10654-1 US-PATENT-APPL-SN-182978 US-PATENT-CLASS-324-5R US-PATENT-CLASS-331-94 US-PATENT-3,702,972	N73-14469*	c 15	NASA-CASE-GSC-10791-1 US-PATENT-APPL-SN-84289 US-PATENT-CLASS-174-52S US-PATENT-CLASS-29-589 US-PATENT-CLASS-29-591 US-PATENT-CLASS-317-234A US-PATENT-CLASS-317-234G US-PATENT-3,705,255
N73-13208*	c 09	NASA-CASE-LEW-11192-1 US-PATENT-APPL-SN-198285 US-PATENT-CLASS-315-3.5 US-PATENT-CLASS-315-5.38 US-PATENT-3,702,951	N73-13562*	c 18	NASA-CASE-ARC-10196-1 US-PATENT-APPL-SN-115082 US-PATENT-CLASS-260-2.5F US-PATENT-3,702,841	N73-14584*	c 18	NASA-CASE-LAR-10894-1 US-PATENT-APPL-SN-189375 US-PATENT-CLASS-106-39R US-PATENT-CLASS-106-55 US-PATENT-CLASS-106-58 US-PATENT-CLASS-106-63 US-PATENT-CLASS-264-DIG.36 US-PATENT-CLASS-264-65 US-PATENT-3,706,583
N73-13209*	c 09	NASA-CASE-XLA-05099 US-PATENT-APPL-SN-98798 US-PATENT-CLASS-235-152 US-PATENT-CLASS-307-207 US-PATENT-CLASS-307-215 US-PATENT-3,700,868	N73-13643*	c 21	NASA-CASE-HQN-10703 US-PATENT-APPL-SN-156724 US-PATENT-CLASS-340-27NA US-PATENT-CLASS-340-33 US-PATENT-CLASS-340-97 US-PATENT-CLASS-343-112CA US-PATENT-3,699,511	N73-14692*	c 21	NASA-CASE-ERC-10392 US-PATENT-APPL-SN-36534 US-PATENT-CLASS-340-27AT US-PATENT-3,706,970
N73-13235*	c 10	NASA-CASE-KSC-10003 US-PATENT-APPL-SN-60883 US-PATENT-CLASS-178-DIG.6 US-PATENT-CLASS-178-6 US-PATENT-CLASS-307-242 US-PATENT-CLASS-307-259 US-PATENT-CLASS-328-104 US-PATENT-CLASS-328-154 US-PATENT-3,702,898	N73-13644*	c 21	NASA-CASE-NPO-11481 US-PATENT-APPL-SN-134571 US-PATENT-CLASS-179-100.2A US-PATENT-CLASS-340-174.1R US-PATENT-CLASS-346-138 US-PATENT-CLASS-346-74MD US-PATENT-CLASS-74-5.22 US-PATENT-3,697,968	N73-14853*	c 31	NASA-CASE-GSC-10590-1 US-PATENT-APPL-SN-130353 US-PATENT-CLASS-102-49.5 US-PATENT-3,706,281
N73-13257*	c 11	NASA-CASE-LAR-10574-1 US-PATENT-APPL-SN-66206 US-PATENT-CLASS-244-1SS US-PATENT-3,698,659	N73-13660*	c 23	NASA-CASE-MFS-20809 US-PATENT-APPL-SN-173185 US-PATENT-CLASS-315-169R US-PATENT-CLASS-315-169TV US-PATENT-CLASS-317-101A US-PATENT-3,700,961	N73-14854*	c 31	NASA-CASE-MSC-12433 US-PATENT-APPL-SN-103551 US-PATENT-CLASS-244-155 US-PATENT-3,702,688
N73-13415*	c 14	NASA-CASE-LAR-10855-1 US-PATENT-APPL-SN-186541 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-182 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-212 US-PATENT-3,699,811	N73-13661*	c 23	NASA-CASE-MSC-12404-1 US-PATENT-APPL-SN-142662 US-PATENT-CLASS-356-106S US-PATENT-3,702,735	N73-14855*	c 31	NASA-CASE-NPO-10680 US-PATENT-APPL-SN-104048 US-PATENT-CLASS-74-2 US-PATENT-3,706,230
N73-13416*	c 14	NASA-CASE-GSC-11302-1 US-PATENT-APPL-SN-186650 US-PATENT-CLASS-73-71.6 US-PATENT-3,699,807	N73-13662*	c 23	NASA-CASE-MFS-20243 US-PATENT-APPL-SN-59894 US-PATENT-CLASS-250-51.5 US-PATENT-CLASS-250-52 US-PATENT-3,702,933	N73-15235*	c 09	NASA-CASE-NPO-12106 US-PATENT-APPL-SN-175881 US-PATENT-CLASS-317-234V US-PATENT-CLASS-317-235AG US-PATENT-CLASS-317-235K US-PATENT-CLASS-331-107G US-PATENT-CLASS-331-177R US-PATENT-CLASS-331-90 US-PATENT-3,694,771
N73-13417*	c 14	NASA-CASE-XLE-05230-2 US-PATENT-APPL-SN-147099 US-PATENT-APPL-SN-877717 US-PATENT-CLASS-136-233 US-PATENT-CLASS-29-573 US-PATENT-CLASS-29-624 US-PATENT-3,699,645	N73-13773*	c 28	NASA-CASE-LEW-10374-1 US-PATENT-APPL-SN-107380 US-PATENT-CLASS-137-81.5 US-PATENT-CLASS-60-211 US-PATENT-CLASS-60-240 US-PATENT-CLASS-60-243 US-PATENT-3,702,536	N73-16106*	c 06	NASA-CASE-LAR-10668-1 US-PATENT-APPL-SN-172459 US-PATENT-CLASS-23-232E US-PATENT-CLASS-23-232R US-PATENT-CLASS-23-254E US-PATENT-CLASS-23-254R US-PATENT-CLASS-250-71R US-PATENT-CLASS-250-83.3UV US-PATENT-3,709,663
N73-13418*	c 14	NASA-CASE-MFS-14216 US-PATENT-APPL-SN-50208 US-PATENT-CLASS-137-487.5 US-PATENT-CLASS-137-81 US-PATENT-CLASS-92-49 US-PATENT-3,698,412	N73-13898*	c 31	NASA-CASE-LAR-10549-1 US-PATENT-APPL-SN-108824 US-PATENT-CLASS-244-139 US-PATENT-CLASS-60-291 US-PATENT-3,700,192	N73-16121*	c 07	NASA-CASE-NPO-11572 US-PATENT-APPL-SN-125234 US-PATENT-CLASS-179-15AN US-PATENT-CLASS-179-15BC US-PATENT-CLASS-325-60 US-PATENT-CLASS-343-200 US-PATENT-3,710,257
N73-13420*	c 14	NASA-CASE-NPO-11418-1 US-PATENT-APPL-SN-193947 US-PATENT-CLASS-333-81B US-PATENT-CLASS-333-98R US-PATENT-3,702,979	N73-13921*	c 32	NASA-CASE-MSC-12233-2 US-PATENT-APPL-SN-107298 US-PATENT-CLASS-229-DIG.11 US-PATENT-CLASS-52-284 US-PATENT-CLASS-52-594 US-PATENT-3,702,520	N73-16205*	c 10	NASA-CASE-NPO-11282 US-PATENT-APPL-SN-101354 US-PATENT-CLASS-325-346 US-PATENT-CLASS-325-419 US-PATENT-3,710,261
N73-13435* #	c 14	NASA-CASE-GSC-11533-1 US-PATENT-APPL-SN-305013	N73-14130*	c 07	NASA-CASE-NPO-11661 US-PATENT-APPL-SN-200682 US-PATENT-CLASS-343-782 US-PATENT-CLASS-343-837 US-PATENT-CLASS-343-915 US-PATENT-3,705,406	N73-16206*	c 10	NASA-CASE-ERC-10285 US-PATENT-APPL-SN-55333 US-PATENT-CLASS-331-45 US-PATENT-CLASS-343-100R US-PATENT-CLASS-343-100SA US-PATENT-CLASS-343-853 US-PATENT-3,710,329
N73-13462*	c 15	NASA-CASE-NPO-11479 US-PATENT-APPL-SN-170440 US-PATENT-CLASS-137-608 US-PATENT-CLASS-137-81.5 US-PATENT-CLASS-138-45 US-PATENT-CLASS-251-122 US-PATENT-3,700,005	N73-14214*	c 09	NASA-CASE-ARC-10467-1 US-PATENT-APPL-SN-212028 US-PATENT-CLASS-250-205 US-PATENT-CLASS-250-211J US-PATENT-CLASS-250-217SS US-PATENT-CLASS-307-310 US-PATENT-CLASS-307-311 US-PATENT-3,705,316	N73-16483*	c 14	NASA-CASE-ERC-10226-1 US-PATENT-APPL-SN-124909 US-PATENT-APPL-SN-808822 US-PATENT-CLASS-250-209 US-PATENT-CLASS-250-215 US-PATENT-CLASS-250-217 US-PATENT-CLASS-315-153 US-PATENT-CLASS-340-25 US-PATENT-CLASS-340-27R US-PATENT-3,708,671
N73-13463*	c 15	NASA-CASE-MFS-20317 US-PATENT-APPL-SN-67730 US-PATENT-CLASS-173-131 US-PATENT-CLASS-72-447 US-PATENT-CLASS-72-476 US-PATENT-3,699,799	N73-14427*	c 14	NASA-CASE-NPO-10758 US-PATENT-APPL-SN-81096 US-PATENT-CLASS-352-169 US-PATENT-CLASS-95-12.5 US-PATENT-CLASS-95-59 US-PATENT-3,704,659	N73-16484*	c 14	NASA-CASE-LAR-10739-1 US-PATENT-APPL-SN-134567 US-PATENT-CLASS-250-217F US-PATENT-CLASS-340-228S US-PATENT-CLASS-340-418 US-PATENT-3,708,674
N73-13464*	c 15	NASA-CASE-NPO-10812 US-PATENT-APPL-SN-129073 US-PATENT-CLASS-425-113 US-PATENT-CLASS-425-133 US-PATENT-CLASS-425-176 US-PATENT-CLASS-72-258 US-PATENT-3,698,848	N73-14428*	c 14	NASA-CASE-NPO-10764-1 US-PATENT-APPL-SN-836280 US-PATENT-CLASS-252-408 US-PATENT-3,700,603	N73-16536*	c 16	NASA-CASE-LAR-10311-1 US-PATENT-APPL-SN-31702 US-PATENT-CLASS-250-199 US-PATENT-CLASS-340-171 US-PATENT-CLASS-350-293 US-PATENT-3,710,122
N73-13465*	c 15	NASA-CASE-LEW-10805-1 US-PATENT-APPL-SN-29917 US-PATENT-CLASS-148-11.5R US-PATENT-3,702,791	N73-14429*	c 14	NASA-CASE-NPO-11387 US-PATENT-APPL-SN-142719 US-PATENT-CLASS-73-57 US-PATENT-CLASS-73-60 US-PATENT-3,706,221	N73-16764*	c 27	NASA-CASE-NPO-12015 US-PATENT-APPL-SN-74862
N73-13466*	c 15	NASA-CASE-MFS-20944 US-PATENT-APPL-SN-148756 US-PATENT-CLASS-91-363A US-PATENT-CLASS-91-448 US-PATENT-3,702,575	N73-14468*	c 15	NASA-CASE-LAR-10103-1 US-PATENT-APPL-SN-103230 US-PATENT-CLASS-219-101 US-PATENT-CLASS-219-119			

		US-PATENT-CLASS-149-19	N73-20176*	c 07	NASA-CASE-KSC-10521	US-PATENT-CLASS-136-225
		US-PATENT-CLASS-149-36			US-PATENT-APPL-SN-212921	US-PATENT-3,729,343
		US-PATENT-3,708,359			US-PATENT-CLASS-340-146.1C	N73-24473* c 14 NASA-CASE-MFS-20418
N73-16918*	c 33	NASA-CASE-MSC-15567-1			US-PATENT-CLASS-340-147R	US-PATENT-APPL-SN-162101
		US-PATENT-APPL-SN-87551			US-PATENT-CLASS-340-163	US-PATENT-CLASS-128-206F
		US-PATENT-CLASS-204-324			US-PATENT-3,715,723	US-PATENT-CLASS-324-78E
		US-PATENT-CLASS-204-325	N73-20217*	c 08	NASA-CASE-LAR-10128-1	US-PATENT-3,729,676
		US-PATENT-CLASS-204-328			US-PATENT-APPL-SN-84002	N73-24513* c 15 NASA-CASE-NPO-11417
		US-PATENT-3,708,419			US-PATENT-CLASS-235-92FQ	US-PATENT-APPL-SN-120241
N73-19004*	c 02	NASA-CASE-ERC-10439			US-PATENT-CLASS-235-92R	US-PATENT-CLASS-417-391
		US-PATENT-APPL-SN-54271			US-PATENT-CLASS-235-92T	US-PATENT-CLASS-60-25
		US-PATENT-CLASS-244-17.13			US-PATENT-CLASS-340-347AD	US-PATENT-3,732,040
		US-PATENT-CLASS-244-77D			US-PATENT-3,714,645	N73-24569* c 17 NASA-CASE-LEW-10920-1
		US-PATENT-CLASS-318-489	N73-20231*	c 09	NASA-CASE-ARC-10264-1	US-PATENT-APPL-SN-106424
		US-PATENT-3,711,042			US-PATENT-APPL-SN-80368	US-PATENT-CLASS-204-192
N73-19234*	c 09	NASA-CASE-GSC-11013-1			US-PATENT-CLASS-328-167	US-PATENT-3,732,158
		US-PATENT-APPL-SN-200717			US-PATENT-CLASS-330-109	N73-24783* c 28 NASA-CASE-NPO-11880
		US-PATENT-CLASS-343-754			US-PATENT-CLASS-330-86	US-PATENT-APPL-SN-209535
		US-PATENT-CLASS-343-839			US-PATENT-3,714,588	US-PATENT-CLASS-313-DIG.8
		US-PATENT-CLASS-343-854	N73-20232*	c 09	NASA-CASE-MFS-21433	US-PATENT-CLASS-313-231
		US-PATENT-CLASS-343-895			US-PATENT-APPL-SN-236281	US-PATENT-CLASS-313-63
		US-PATENT-3,713,163			US-PATENT-CLASS-307-230	US-PATENT-CLASS-60-202
N73-19235*	c 09	NASA-CASE-MFS-20407			US-PATENT-CLASS-307-304	US-PATENT-3,313,204
		US-PATENT-APPL-SN-116777			US-PATENT-CLASS-330-20	US-PATENT-3,728,861
		US-PATENT-CLASS-317-235AM			US-PATENT-CLASS-330-22	N73-24784* c 28 NASA-CASE-NPO-11559
		US-PATENT-CLASS-317-235N			US-PATENT-CLASS-330-30D	US-PATENT-APPL-SN-147996
		US-PATENT-CLASS-317-235R			US-PATENT-CLASS-330-35	US-PATENT-CLASS-102-49.7
		US-PATENT-CLASS-317-235T			US-PATENT-CLASS-330-40	US-PATENT-CLASS-102-49.8
		US-PATENT-CLASS-317-235UA			US-PATENT-CLASS-330-80T	US-PATENT-CLASS-60-254
		US-PATENT-3,714,526			US-PATENT-3,715,693	US-PATENT-CLASS-60-256
N73-19419*	c 14	NASA-CASE-LAR-10226-1	N73-20253*	c 10	NASA-CASE-LAR-10310-1	US-PATENT-3,729,935
		US-PATENT-APPL-SN-98774			US-PATENT-APPL-SN-147103	N73-25125* c 05 NASA-CASE-MFS-20332-2
		US-PATENT-CLASS-250-217R			US-PATENT-CLASS-235-197	US-PATENT-APPL-SN-195061
		US-PATENT-CLASS-95-11.5R			US-PATENT-3,714,405	US-PATENT-APPL-SN-869260
		US-PATENT-CLASS-95-11R	N73-20254*	c 10	NASA-CASE-NPO-11868	US-PATENT-CLASS-128-142.5
		US-PATENT-3,712,195			US-PATENT-APPL-SN-192101	US-PATENT-CLASS-137-538
N73-19420*	c 14	NASA-CASE-MFS-20774			US-PATENT-CLASS-307-221R	US-PATENT-CLASS-2.2.1A
		US-PATENT-APPL-SN-161028			US-PATENT-CLASS-328-187	US-PATENT-3,720,208
		US-PATENT-CLASS-73-84			US-PATENT-CLASS-328-37	N73-25160* c 07 NASA-CASE-ARC-10097-2
		US-PATENT-3,712,121			US-PATENT-CLASS-328-61	US-PATENT-APPL-SN-115083
N73-19421*	c 14	NASA-CASE-MFS-20242			US-PATENT-3,718,863	US-PATENT-APPL-SN-768662
		US-PATENT-APPL-SN-213004	N73-20267*	c 11	NASA-CASE-MFS-21362	US-PATENT-CLASS-325-113
		US-PATENT-CLASS-73-71.6			US-PATENT-APPL-SN-211411	US-PATENT-CLASS-325-139
		US-PATENT-3,712,120			US-PATENT-CLASS-73-432SD	US-PATENT-CLASS-325-45
N73-19457*	c 15	NASA-CASE-MFS-20698-2			US-PATENT-3,714,833	US-PATENT-CLASS-325-61
		US-PATENT-APPL-SN-136086	N73-20474*	c 14	NASA-CASE-ERC-10350	US-PATENT-CLASS-340-207
		US-PATENT-APPL-SN-3418			US-PATENT-APPL-SN-55535	US-PATENT-CLASS-340-258R
		US-PATENT-CLASS-423-446			US-PATENT-CLASS-340-27R	US-PATENT-3,719,891
		US-PATENT-CLASS-423-625			US-PATENT-3,714,624	N73-25161* c 07 NASA-CASE-NPO-11707
		US-PATENT-3,714,332			NASA-CASE-LAR-10726-1	US-PATENT-APPL-SN-196399
N73-19458*	c 15	NASA-CASE-LAR-10195-1	N73-20475*	c 14	US-PATENT-APPL-SN-146935	US-PATENT-CLASS-343-6.5R
		US-PATENT-APPL-SN-201782			US-PATENT-CLASS-250-231	US-PATENT-CLASS-343-6.8R
		US-PATENT-CLASS-259-4			US-PATENT-CLASS-250-83.3H	US-PATENT-3,729,736
		US-PATENT-3,712,591			US-PATENT-3,714,432	N73-25206* c 08 NASA-CASE-NPO-11497
N73-19630* #	c 21	NASA-CASE-GSC-11188-2			NASA-CASE-MFS-20673	US-PATENT-APPL-SN-155565
		US-PATENT-APPL-SN-244440	N73-20476*	c 14	US-PATENT-APPL-SN-94049	US-PATENT-CLASS-235-10.2
N73-19793*	c 28	NASA-CASE-LEW-11187-1			US-PATENT-CLASS-73-90	US-PATENT-CLASS-235-151.27
		US-PATENT-APPL-SN-147922			US-PATENT-CLASS-73-91	US-PATENT-CLASS-235-92CV
		US-PATENT-CLASS-60-39.28R			US-PATENT-3,714,821	US-PATENT-CLASS-235-92DN
N73-20039*	c 03	US-PATENT-3,713,290	N73-20477*	c 14	NASA-CASE-ARC-10443-1	US-PATENT-CLASS-235-92EA
		NASA-CASE-GSC-10814-1			US-PATENT-APPL-SN-128419	US-PATENT-CLASS-235-92EV
		US-PATENT-APPL-SN-41404			US-PATENT-CLASS-250-83.3R	US-PATENT-CLASS-235-92R
		US-PATENT-CLASS-244-1SA			US-PATENT-CLASS-250-83R	US-PATENT-3,729,129
		US-PATENT-CLASS-244-1SS			US-PATENT-3,715,590	N73-25240* c 10 NASA-CASE-MSC-12428-1
		US-PATENT-3,715,092			NASA-CASE-NPO-10985	US-PATENT-APPL-SN-170681
N73-20040*	c 03	NASA-CASE-NPO-11771	N73-20478*	c 14	US-PATENT-APPL-SN-74759	US-PATENT-CLASS-179-1SA
		US-PATENT-APPL-SN-200762			US-PATENT-CLASS-324-30R	US-PATENT-CLASS-235-151.31
		US-PATENT-CLASS-244-1.55			US-PATENT-CLASS-324-65P	US-PATENT-CLASS-324-77R
		US-PATENT-CLASS-250-212			US-PATENT-CLASS-73-194E	US-PATENT-CLASS-324-78J
		US-PATENT-CLASS-250-234			US-PATENT-3,712,132	US-PATENT-3,732,405
		US-PATENT-CLASS-60-26	N73-20514*	c 15	NASA-CASE-NPO-11213	N73-25241* c 10 NASA-CASE-GSC-11239-1
		US-PATENT-3,715,600			US-PATENT-APPL-SN-78703	US-PATENT-APPL-SN-180683
N73-20137*	c 05	NASA-CASE-LAR-10076-1			US-PATENT-CLASS-195-127	US-PATENT-CLASS-325-363
		US-PATENT-APPL-SN-84290			US-PATENT-3,713,987	US-PATENT-CLASS-325-67
		US-PATENT-CLASS-165-46	N73-20740*	c 32	NASA-CASE-LAR-10765-1	US-PATENT-3,737,781
		US-PATENT-CLASS-312-1			US-PATENT-APPL-SN-138230	N73-25243* c 10 NASA-CASE-MFS-21919-1
		US-PATENT-CLASS-62-259			US-PATENT-CLASS-356-32	US-PATENT-APPL-SN-193456
		US-PATENT-3,713,480			US-PATENT-CLASS-73-88A	US-PATENT-CLASS-317-100
N73-20174*	c 07	NASA-CASE-GSC-10087-4			US-PATENT-3,715,915	US-PATENT-CLASS-317-101DH
		US-PATENT-APPL-SN-47440	N73-20741*	c 23	NASA-CASE-ARC-10194-1	US-PATENT-3,735,206
		US-PATENT-APPL-SN-701679			US-PATENT-APPL-SN-107659	N73-25262* c 12 NASA-CASE-LAR-10578-1
		US-PATENT-CLASS-325-12			US-PATENT-CLASS-350-202	US-PATENT-APPL-SN-233098
		US-PATENT-CLASS-325-17			US-PATENT-3,715,152	US-PATENT-CLASS-73-147
		US-PATENT-CLASS-325-4	N73-22076* #	c 07	NASA-CASE-NPO-10166-1	US-PATENT-3,731,528
		US-PATENT-CLASS-325-5			US-PATENT-APPL-SN-192803	N73-25460* c 14 NASA-CASE-MFS-20916
		US-PATENT-CLASS-325-63			US-PATENT-CLASS-324-65P	US-PATENT-APPL-SN-212165
		US-PATENT-CLASS-325-7	N73-22710*	c 27	NASA-CASE-NPO-10893	US-PATENT-CLASS-73-189
		US-PATENT-CLASS-325-8			US-PATENT-APPL-SN-845584	US-PATENT-3,731,531
		US-PATENT-CLASS-325-9			US-PATENT-CLASS-260-94.8	N73-25461* c 14 NASA-CASE-KSC-10108
		US-PATENT-CLASS-343-179			US-PATENT-3,634,383	US-PATENT-APPL-SN-73922
		US-PATENT-3,715,663	N73-24176*	c 07	NASA-CASE-NPO-11751	US-PATENT-CLASS-343-14
N73-20175*	c 07	NASA-CASE-KSC-10698			US-PATENT-APPL-SN-192141	US-PATENT-CLASS-343-17.5
		US-PATENT-APPL-SN-213949			US-PATENT-CLASS-343-DIG.2	US-PATENT-CLASS-343-6.8R
		US-PATENT-CLASS-324-72			US-PATENT-CLASS-343-915	US-PATENT-3,732,567
		US-PATENT-CLASS-73-170R	N73-24472*	c 14	NASA-CASE-LEW-11072-1	N73-25462* c 14 NASA-CASE-NPO-11686
		US-PATENT-3,715,660			US-PATENT-APPL-SN-104885	US-PATENT-APPL-SN-212900

			US-PATENT-CLASS-250-203R				US-PATENT-CLASS-331-94.5				US-PATENT-CLASS-235-92MT
			US-PATENT-CLASS-250-214				US-PATENT-CLASS-332-7.51				US-PATENT-CLASS-73-67.3
			US-PATENT-CLASS-250-214				US-PATENT-CLASS-356-4				US-PATENT-CLASS-73-88.5R
			US-PATENT-CLASS-250-83.3H				US-PATENT-CLASS-356-5				US-PATENT-CLASS-73-91
			US-PATENT-CLASS-356-152				US-PATENT-3,737,231				US-PATENT-3,733,424
			US-PATENT-3,723,745				NASA-CASE-NPO-11821-1				NASA-CASE-NPO-11330
N73-25463*	c 14		NASA-CASE-ARC-10278-1	N73-26175*	c 08		US-PATENT-APPL-SN-236285	N73-26958*	c 33		US-PATENT-APPL-SN-118269
			US-PATENT-APPL-SN-154933				US-PATENT-CLASS-235-152				US-PATENT-CLASS-285-DIG.21
			US-PATENT-CLASS-356-110				US-PATENT-CLASS-235-164				US-PATENT-CLASS-285-316
			US-PATENT-3,729,260				US-PATENT-CLASS-328-167				US-PATENT-3,737,181
N73-25512*	c 15		NASA-CASE-LAR-10129-1	N73-26176*	c 08		US-PATENT-3,732,409	N73-27052*	c 04		NASA-CASE-GSC-11092-2
			US-PATENT-APPL-SN-99201				NASA-CASE-NPO-11456				US-PATENT-APPL-SN-139250
			US-PATENT-CLASS-182-5				US-PATENT-APPL-SN-153543				US-PATENT-APPL-SN-60950
			US-PATENT-CLASS-188-65.1				US-PATENT-CLASS-340-172.5				US-PATENT-CLASS-103.5R
			US-PATENT-CLASS-24-134R				US-PATENT-3,740,725				US-PATENT-3,745,090
			US-PATENT-CLASS-254-156	N73-26195*	c 09		NASA-CASE-GSC-10990-1	N73-27062*	c 05		NASA-CASE-LEW-11669-1
			US-PATENT-3,729,068				US-PATENT-APPL-SN-93329				US-PATENT-APPL-SN-198885
N73-25513*	c 15		NASA-CASE-GSC-11205-1				US-PATENT-CLASS-333-73R				US-PATENT-CLASS-128-2
			US-PATENT-APPL-SN-107376				US-PATENT-CLASS-333-73S				US-PATENT-CLASS-128-24A
			US-PATENT-CLASS-188-266				US-PATENT-CLASS-333-82A				US-PATENT-CLASS-128-305
			US-PATENT-CLASS-244-1SA				US-PATENT-CLASS-333-84M				US-PATENT-CLASS-32-28
			US-PATENT-3,737,118				US-PATENT-3,737,815				US-PATENT-3,736,938
N73-25760*	c 25		NASA-CASE-LEW-11180-1	N73-26228*	c 10		NASA-CASE-ERC-10403-1	N73-27086*	c 06		NASA-CASE-GSC-10225-1
			US-PATENT-APPL-SN-175852				US-PATENT-APPL-SN-253405				US-PATENT-APPL-SN-710621
			US-PATENT-CLASS-313-161				US-PATENT-CLASS-317-DIG.6				US-PATENT-CLASS-195-66R
			US-PATENT-CLASS-313-231				US-PATENT-CLASS-321-11				US-PATENT-3,745,089
			US-PATENT-CLASS-60-202				US-PATENT-3,737,757	N73-27150* #	c 09		NASA-CASE-ERC-10224-2
			US-PATENT-3,735,591				NASA-CASE-NPO-11569				US-PATENT-APPL-SN-221833
N73-25952*	c 33		NASA-CASE-LEW-10359-2	N73-26229*	c 10		US-PATENT-APPL-SN-199957				US-PATENT-APPL-SN-868775
			US-PATENT-APPL-SN-150215				US-PATENT-CLASS-307-220				US-PATENT-CLASS-29-580
			US-PATENT-APPL-SN-47063				US-PATENT-CLASS-307-233				US-PATENT-CLASS-317-234G
			US-PATENT-CLASS-102-105				US-PATENT-3,737,676				US-PATENT-CLASS-317-234L
			US-PATENT-CLASS-244-117A	N73-26230*	c 10		NASA-CASE-MSC-13907-1				US-PATENT-CLASS-317-234M
			US-PATENT-CLASS-60-200A				US-PATENT-APPL-SN-254177				US-PATENT-CLASS-317-234N
			US-PATENT-CLASS-60-265				US-PATENT-CLASS-235-186				US-PATENT-CLASS-317-234R
			US-PATENT-CLASS-60-267				US-PATENT-CLASS-235-194				US-PATENT-CLASS-317-234R
			US-PATENT-CLASS-62-467				US-PATENT-CLASS-235-197	N73-27171*	c 10		NASA-CASE-NPO-11941-1
			US-PATENT-3,720,075				US-PATENT-3,737,639				US-PATENT-APPL-SN-241614
N73-26004*	c 02		NASA-CASE-LAR-10682-1	N73-26238*	c 11		NASA-CASE-NPO-11366				US-PATENT-CLASS-330-70CR
			US-PATENT-APPL-SN-127915				US-PATENT-APPL-SN-144139				US-PATENT-CLASS-331-17
			US-PATENT-CLASS-244-75A				US-PATENT-CLASS-180-41				US-PATENT-CLASS-331-25
			US-PATENT-CLASS-244-76C				US-PATENT-CLASS-180-6.5				US-PATENT-3,740,671
			US-PATENT-CLASS-244-77F				US-PATENT-CLASS-180-7R	N73-27376* #	c 14		NASA-CASE-HQN-10037-1
			US-PATENT-CLASS-244-77G				US-PATENT-CLASS-180-8A				US-PATENT-APPL-SN-235957
			US-PATENT-3,734,432				US-PATENT-CLASS-180-9.2R				US-PATENT-CLASS-73-28
N73-26005*	c 02		NASA-CASE-ARC-10470-1				US-PATENT-CLASS-180-9.5				US-PATENT-3,741,001
			US-PATENT-APPL-SN-206279				US-PATENT-CLASS-305-35EB	N73-27377*	c 14		NASA-CASE-MFS-21046-1
			US-PATENT-CLASS-244-13				US-PATENT-CLASS-305-39				US-PATENT-APPL-SN-156725
			US-PATENT-CLASS-244-46				US-PATENT-3,730,287				US-PATENT-CLASS-272-73
			US-PATENT-CLASS-244-55				NASA-CASE-NPO-11304				US-PATENT-CLASS-35-12C
			US-PATENT-3,737,121	N73-26430*	c 14		US-PATENT-APPL-SN-101214				US-PATENT-3,744,794
N73-26006*	c 02		NASA-CASE-MSC-12393-1				US-PATENT-CLASS-219-499	N73-27378*	c 14		NASA-CASE-KSC-10626
			US-PATENT-APPL-SN-203405				US-PATENT-CLASS-219-50				US-PATENT-APPL-SN-180963
			US-PATENT-CLASS-114-122				US-PATENT-3,733,463				US-PATENT-CLASS-222-414
			US-PATENT-CLASS-9-11A				NASA-CASE-MSC-12363-1				US-PATENT-CLASS-244-15S
			US-PATENT-CLASS-9-2A	N73-26431*	c 14		US-PATENT-APPL-SN-125236				US-PATENT-CLASS-244-135
			US-PATENT-CLASS-9-3				US-PATENT-CLASS-95-1.1				US-PATENT-3,744,738
			US-PATENT-3,736,607				US-PATENT-3,736,849	N73-27379*	c 14		NASA-CASE-FRC-10060-1
N73-26071*	c 05		NASA-CASE-ARC-10599-1	N73-26432*	c 14		NASA-CASE-ERC-10276				US-PATENT-APPL-SN-189290
			US-PATENT-APPL-SN-247481				US-PATENT-APPL-SN-24155				US-PATENT-CLASS-179-175.1A
			US-PATENT-CLASS-165-46				US-PATENT-CLASS-250-209				US-PATENT-CLASS-340-5C
			US-PATENT-CLASS-2-2.1				US-PATENT-CLASS-340-15.5GC				US-PATENT-CLASS-73-10V
			US-PATENT-CLASS-62-176				US-PATENT-CLASS-343-100ME				US-PATENT-3,744,294
			US-PATENT-CLASS-62-207				US-PATENT-3,737,905	N73-27405*	c 15		NASA-CASE-MFS-20855
			US-PATENT-CLASS-62-209				NASA-CASE-KSC-10639				US-PATENT-APPL-SN-127647
			US-PATENT-CLASS-62-259				US-PATENT-APPL-SN-181023				US-PATENT-CLASS-219-348
			US-PATENT-CLASS-62-89				US-PATENT-CLASS-137-397				US-PATENT-CLASS-53-112A
			US-PATENT-3,736,764				US-PATENT-CLASS-137-582				US-PATENT-CLASS-53-22A
N73-26072*	c 05		NASA-CASE-ARC-10329-1				US-PATENT-3,736,956				US-PATENT-3,745,739
			US-PATENT-APPL-SN-159857	N73-26472*	c 15		NASA-CASE-ARC-10304-1	N73-27406*	c 15		NASA-CASE-NPO-11377
			US-PATENT-CLASS-128-2.1R				US-PATENT-APPL-SN-140946				US-PATENT-APPL-SN-187262
			US-PATENT-CLASS-351-23				US-PATENT-CLASS-252-8.1				US-PATENT-CLASS-137-1
			US-PATENT-CLASS-351-30				US-PATENT-3,730,891				US-PATENT-CLASS-137-154
			US-PATENT-CLASS-351-36				NASA-CASE-MFS-20675				US-PATENT-CLASS-137-604
			US-PATENT-3,737,217	N73-26751*	c 26		US-PATENT-APPL-SN-200085				US-PATENT-3,744,510
N73-26100*	c 06		NASA-CASE-GSC-11358-1				US-PATENT-CLASS-250-219TH	N73-27446*	c 17		NASA-CASE-LAR-10953-1
			US-PATENT-APPL-SN-226551				US-PATENT-CLASS-356-108				US-PATENT-APPL-SN-163152
			US-PATENT-CLASS-260-46.5R				US-PATENT-CLASS-356-161				US-PATENT-CLASS-23-230R
			US-PATENT-3,733,350				US-PATENT-CLASS-356-202				US-PATENT-3,744,972
N73-26117*	c 07		NASA-CASE-KSC-10392				US-PATENT-3,737,237	N73-27699*	c 28		NASA-CASE-XLE-10453-2
			US-PATENT-APPL-SN-181024				NASA-CASE-LEW-11726-1				US-PATENT-APPL-SN-180473
			US-PATENT-CLASS-343-880				US-PATENT-APPL-SN-280031				US-PATENT-APPL-SN-758540
			US-PATENT-CLASS-343-883				US-PATENT-CLASS-156-18				US-PATENT-CLASS-313-217
			US-PATENT-CLASS-343-889				US-PATENT-CLASS-174-DIG.6				US-PATENT-CLASS-313-218
			US-PATENT-CLASS-343-895				US-PATENT-CLASS-29-599				US-PATENT-CLASS-313-230
			US-PATENT-3,737,912				US-PATENT-CLASS-336-DIG.1				US-PATENT-CLASS-313-355
N73-26118*	c 07		NASA-CASE-NPO-11548				US-PATENT-CLASS-336-200				US-PATENT-CLASS-313-63
			US-PATENT-APPL-SN-151411				US-PATENT-3,737,824				US-PATENT-CLASS-60-202
			US-PATENT-CLASS-179-15A	N73-26876*	c 31		NASA-CASE-MFS-20863	N73-27796*	c 33		NASA-CASE-LAR-10439-1
			US-PATENT-CLASS-179-15BM				US-PATENT-APPL-SN-159966				US-PATENT-APPL-SN-182033
			US-PATENT-CLASS-325-40				US-PATENT-CLASS-244-1SD				US-PATENT-CLASS-356-72
			US-PATENT-CLASS-343-204				US-PATENT-CLASS-244-137P				US-PATENT-CLASS-73-339
			US-PATENT-3,737,776				US-PATENT-3,737,117				US-PATENT-CLASS-73-432R
N73-26119*	c 07		NASA-CASE-NPO-11426	N73-26910*	c 32		NASA-CASE-LAR-10756-1				US-PATENT-CLASS-73-86
			US-PATENT-APPL-SN-89210				US-PATENT-APPL-SN-160859				
			US-PATENT-CLASS-250-199								

N73-27941*	c 05	US-PATENT-3,745,816	N73-28516*	c 15	US-PATENT-CLASS-29-497.5	N73-30389*	c 14	US-PATENT-CLASS-324-62R
		NASA-CASE-MFS-21109-1			US-PATENT-3,745,300			US-PATENT-CLASS-324-95
		US-PATENT-APPL-SN-202769			NASA-CASE-XNP-01187			US-PATENT-3,750,016
		US-PATENT-CLASS-128-2.05R			US-PATENT-APPL-SN-155598			NASA-CASE-MFS-20546-2
		US-PATENT-CLASS-128-2.06R			US-PATENT-CLASS-317-158			US-PATENT-APPL-SN-11220
		US-PATENT-CLASS-272-73			US-PATENT-3,244,943			US-PATENT-APPL-SN-51317
		US-PATENT-CLASS-73-379			NASA-CASE-XNP-08876			US-PATENT-CLASS-250-105
		US-PATENT-3,744,480			US-PATENT-APPL-SN-527331			US-PATENT-CLASS-250-65R
N73-27980*	c 06	NASA-CASE-LEW-11325-1	N73-28573*	c 17	US-PATENT-CLASS-75-66	N73-30390*	c 14	US-PATENT-3,749,911
		US-PATENT-APPL-SN-184960			US-PATENT-3,419,384			NASA-CASE-XGS-07752
		US-PATENT-CLASS-117-161P			NASA-CASE-XNP-01185			US-PATENT-APPL-SN-533659
		US-PATENT-CLASS-117-161UN			US-PATENT-APPL-SN-155595			US-PATENT-CLASS-73-4
		US-PATENT-CLASS-117-228			US-PATENT-CLASS-317-158			US-PATENT-3,395,565
		US-PATENT-CLASS-161-214			US-PATENT-3,198,994			NASA-CASE-XLA-05087
		US-PATENT-CLASS-161-227			NASA-CASE-MFS-21010-1			US-PATENT-APPL-SN-459407
		US-PATENT-CLASS-260-30.2			US-PATENT-APPL-SN-251609			US-PATENT-CLASS-315-111
		US-PATENT-CLASS-260-30.8DS			US-PATENT-CLASS-73-379			US-PATENT-3,394,286
		US-PATENT-CLASS-260-32.6N			US-PATENT-3,750,479			NASA-CASE-MFS-21441-1
		US-PATENT-CLASS-260-33.4R			NASA-CASE-LAR-10670-1			US-PATENT-APPL-SN-231662
		US-PATENT-CLASS-260-33.6R			US-PATENT-APPL-SN-59892			US-PATENT-CLASS-250-394
		US-PATENT-CLASS-260-47CP			US-PATENT-CLASS-149-1			US-PATENT-CLASS-250-518
		US-PATENT-CLASS-260-65			US-PATENT-CLASS-149-36			US-PATENT-3,752,986
		US-PATENT-CLASS-260-78TF			US-PATENT-CLASS-252-301.4			NASA-CASE-GSC-11487-1
		US-PATENT-CLASS-260-78UA			US-PATENT-CLASS-252-305			US-PATENT-APPL-SN-193814
		US-PATENT-3,745,149			US-PATENT-CLASS-60-215			US-PATENT-CLASS-250-203
		NASA-CASE-NPO-11593-1			US-PATENT-3,751,913			US-PATENT-CLASS-350-199
		US-PATENT-APPL-SN-172807			NASA-CASE-MFS-21040-1			US-PATENT-CLASS-350-204
		US-PATENT-CLASS-179-15FS			US-PATENT-APPL-SN-183240			US-PATENT-CLASS-350-55
		US-PATENT-CLASS-325-419			US-PATENT-CLASS-260-485F			US-PATENT-3,752,559
		US-PATENT-CLASS-329-122			US-PATENT-3,752,847			NASA-CASE-LAR-10000
		US-PATENT-3,745,255			NASA-CASE-MFS-10512			US-PATENT-APPL-SN-613235
		NASA-CASE-GSC-11046-1			US-PATENT-APPL-SN-606027			US-PATENT-CLASS-73-398
N73-28012*	c 07	US-PATENT-APPL-SN-182399	N73-30098*	c 06	US-PATENT-CLASS-260-77.5	N73-30394*	c 14	US-PATENT-3,446,075
		US-PATENT-CLASS-343-725			US-PATENT-3,463,761			NASA-CASE-LAR-10623-1
		US-PATENT-CLASS-343-729			US-PATENT-3,463,762			US-PATENT-APPL-SN-214086
		US-PATENT-CLASS-343-797			NASA-CASE-MFS-10506			US-PATENT-CLASS-15-415
		US-PATENT-CLASS-343-803			US-PATENT-APPL-SN-606036			US-PATENT-CLASS-73-28
		US-PATENT-CLASS-343-893			US-PATENT-CLASS-260-77.5			US-PATENT-3,748,905
		US-PATENT-3,747,111			US-PATENT-3,463,762			NASA-CASE-GSC-11149-1
		NASA-CASE-XNP-00477			US-PATENT-APPL-SN-605994			US-PATENT-APPL-SN-152849
		US-PATENT-APPL-SN-175497			US-PATENT-CLASS-260-615			US-PATENT-CLASS-254-29A
		US-PATENT-CLASS-340-347			US-PATENT-3,452,103			US-PATENT-CLASS-29-452
		US-PATENT-3,219,997			NASA-CASE-MFS-11492			US-PATENT-CLASS-81-57.38
		NASA-CASE-GSC-11215-1			US-PATENT-APPL-SN-707440			US-PATENT-3,749,362
		US-PATENT-APPL-SN-114873			US-PATENT-CLASS-260-2			US-PATENT-3,749,362
		US-PATENT-CLASS-29-628			US-PATENT-3,577,356			NASA-CASE-LEW-11087-1
		US-PATENT-CLASS-29-629			NASA-CASE-MFS-10509			US-PATENT-APPL-SN-201904
		US-PATENT-CLASS-29-630			US-PATENT-APPL-SN-605964			US-PATENT-CLASS-308-188
		US-PATENT-CLASS-29-630A			US-PATENT-CLASS-260-77.5			US-PATENT-CLASS-308-193
		US-PATENT-3,744,128			US-PATENT-3,475,384			US-PATENT-3,751,123
		NASA-CASE-XNP-03623			NASA-CASE-NPO-11628-1			NASA-CASE-MSC-13587-1
		US-PATENT-APPL-SN-471154			US-PATENT-APPL-SN-207211			US-PATENT-APPL-SN-206698
		US-PATENT-CLASS-178-69.5			US-PATENT-CLASS-325-420			US-PATENT-CLASS-137-516.27
		US-PATENT-3,402,265			US-PATENT-CLASS-325-422			US-PATENT-CLASS-137-535
		NASA-CASE-LAR-10612-1			US-PATENT-CLASS-329-120			US-PATENT-3,749,123
		US-PATENT-APPL-SN-233173			US-PATENT-3,746,998			NASA-CASE-HQN-10638-1
N73-28084*	c 09	US-PATENT-CLASS-73-147	N73-30113*	c 07	US-PATENT-APPL-SN-250766	N73-30460*	c 15	US-PATENT-APPL-SN-212977
		US-PATENT-3,744,305			US-PATENT-CLASS-178-DIG.23			US-PATENT-CLASS-188-1C
		NASA-CASE-NPO-11749			US-PATENT-CLASS-178-6.6DD			US-PATENT-CLASS-297-386
		US-PATENT-APPL-SN-175267			US-PATENT-CLASS-178-6.8			US-PATENT-3,749,205
		US-PATENT-CLASS-324-52			US-PATENT-CLASS-179-15BS			NASA-CASE-MFS-20823-1
		US-PATENT-CLASS-73-15R			US-PATENT-3,749,831			US-PATENT-APPL-SN-175981
		US-PATENT-3,737,762			NASA-CASE-NPO-10817-1			US-PATENT-CLASS-350-3.5
		NASA-CASE-XLA-08916-2			US-PATENT-APPL-SN-82649			US-PATENT-CLASS-356-108
		US-PATENT-APPL-SN-777765			US-PATENT-CLASS-250-229			US-PATENT-CLASS-356-109
		US-PATENT-APPL-SN-97472			US-PATENT-CLASS-250-237R			US-PATENT-3,744,912
		US-PATENT-CLASS-73-170R			US-PATENT-CLASS-250-239			NASA-CASE-ERC-10339-1
		US-PATENT-CLASS-73-432R			US-PATENT-3,745,352			US-PATENT-APPL-SN-43883
		US-PATENT-3,744,320			US-PATENT-3,745,352			US-PATENT-CLASS-156-285
		NASA-CASE-LEW-11159-1			NASA-CASE-MFS-21214-1			US-PATENT-3,745,082
		US-PATENT-APPL-SN-104346			US-PATENT-APPL-SN-235269			NASA-CASE-GSC-10890-1
		US-PATENT-CLASS-250-336			US-PATENT-CLASS-313-161			US-PATENT-APPL-SN-111998
		US-PATENT-CLASS-307-308			US-PATENT-CLASS-315-248			US-PATENT-CLASS-244-1SA
		US-PATENT-3,745,357			US-PATENT-CLASS-315-324			US-PATENT-CLASS-250-203R
		NASA-CASE-GSC-11074-1			US-PATENT-3,745,410			US-PATENT-CLASS-250-209
		US-PATENT-APPL-SN-198362			NASA-CASE-NPO-11738-1			US-PATENT-CLASS-250-236
		US-PATENT-CLASS-34-155			US-PATENT-APPL-SN-235295			US-PATENT-3,752,993
		US-PATENT-CLASS-34-160			US-PATENT-CLASS-335-296			NASA-CASE-LAR-10717-1
		US-PATENT-CLASS-34-162			US-PATENT-CLASS-335-297			US-PATENT-APPL-SN-242028
		US-PATENT-3,744,148			US-PATENT-3,750,067			US-PATENT-CLASS-343-112CA
N73-28489*	c 14	NASA-CASE-GSC-11444-1	N73-30205*	c 10	NASA-CASE-NPO-11307-1	N73-30641*	c 21	US-PATENT-CLASS-250-209
		US-PATENT-APPL-SN-229128			US-PATENT-APPL-SN-169671			US-PATENT-CLASS-250-236
		US-PATENT-CLASS-250-203R			US-PATENT-CLASS-340-277			US-PATENT-3,752,993
		US-PATENT-CLASS-250-209			US-PATENT-CLASS-340-279			NASA-CASE-LEW-11326-1
		US-PATENT-CLASS-250-214R			US-PATENT-3,750,131			US-PATENT-APPL-SN-192970
		US-PATENT-CLASS-356-141			NASA-CASE-MFS-20658-1			US-PATENT-CLASS-431-173
		US-PATENT-3,744,913			US-PATENT-APPL-SN-205675			US-PATENT-CLASS-431-9
		NASA-CASE-XNP-05231			US-PATENT-CLASS-324-79D			US-PATENT-CLASS-60-39.65
		US-PATENT-APPL-SN-524746			US-PATENT-CLASS-328-129			US-PATENT-CLASS-60-39.66
		US-PATENT-CLASS-250-51.5			US-PATENT-CLASS-328-134			US-PATENT-CLASS-60-39.72
		US-PATENT-3,440,419			US-PATENT-CLASS-328-134			US-PATENT-CLASS-60-39.74R
		NASA-CASE-LEW-10533-1			US-PATENT-CLASS-328-48			US-PATENT-3,748,853
		US-PATENT-APPL-SN-134658			US-PATENT-3,745,475			NASA-CASE-GSC-11296-1
		US-PATENT-CLASS-219-107			NASA-CASE-NPO-11291-1			US-PATENT-APPL-SN-228190
		US-PATENT-CLASS-219-62			US-PATENT-APPL-SN-116790			US-PATENT-CLASS-350-162SF
		US-PATENT-CLASS-27-498			US-PATENT-CLASS-324-29.5			US-PATENT-CLASS-350-55
N73-28515*	c 15	NASA-CASE-LEW-10533-1	N73-30388*	c 14	US-PATENT-CLASS-324-57R			US-PATENT-3,752,564
		US-PATENT-APPL-SN-134658			NASA-CASE-NPO-11291-1			
		US-PATENT-CLASS-219-107			US-PATENT-APPL-SN-116790			
		US-PATENT-CLASS-219-62			US-PATENT-CLASS-324-29.5			

N73-30829*	c 31	NASA-CASE-GSC-11018-1 US-PATENT-APPL-SN-244523 US-PATENT-CLASS-165-105 US-PATENT-CLASS-165-32 US-PATENT-CLASS-165-47 US-PATENT-CLASS-165-96 US-PATENT-CLASS-244-1SS US-PATENT-3,749,156	N73-32112*	c 09	NASA-CASE-ARC-10330-1 US-PATENT-APPL-SN-151412 US-PATENT-CLASS-317-235R US-PATENT-CLASS-317-235WW US-PATENT-3,760,239	US-PATENT-CLASS-117-105 US-PATENT-CLASS-117-105.5 US-PATENT-CLASS-117-130R US-PATENT-CLASS-117-138.8R US-PATENT-CLASS-117-151 US-PATENT-CLASS-117-160R US-PATENT-CLASS-117-66 US-PATENT-CLASS-29-527.2 US-PATENT-CLASS-72-53 US-PATENT-3,754,976
N73-31988*	c 03	NASA-CASE-MSC-12396-1 US-PATENT-APPL-SN-258331 US-PATENT-CLASS-307-18 US-PATENT-CLASS-307-28 US-PATENT-CLASS-307-29 US-PATENT-CLASS-307-38 US-PATENT-3,755,686	N73-32143*	c 10	NASA-CASE-MSC-13746-1 US-PATENT-APPL-SN-226476 US-PATENT-CLASS-178-18 US-PATENT-3,758,718	NASA-CASE-XNP-01188 US-PATENT-APPL-SN-155596 US-PATENT-CLASS-317-158 US-PATENT-3,262,025
N73-32011*	c 05	NASA-CASE-GSC-11169-2 US-PATENT-APPL-SN-139094 US-PATENT-APPL-SN-60882 US-PATENT-CLASS-195-127 US-PATENT-3,756,920	N73-32144*	c 10	NASA-CASE-NPO-11703-1 US-PATENT-APPL-SN-223560 US-PATENT-CLASS-340-166 US-PATENT-CLASS-340-173 US-PATENT-CLASS-340-223 US-PATENT-CLASS-340-415 US-PATENT-3,760,394	NASA-CASE-XNP-07169 US-PATENT-APPL-SN-486884 US-PATENT-CLASS-175-26 US-PATENT-3,375,885
N73-32012*	c 05	NASA-CASE-MSC-12609-1 US-PATENT-APPL-SN-750031 US-PATENT-CLASS-128-1A US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-2-81 US-PATENT-3,751,727	N73-32145*	c 10	NASA-CASE-MFS-21465-1 US-PATENT-APPL-SN-218965 US-PATENT-CLASS-307-271 US-PATENT-CLASS-318-230 US-PATENT-CLASS-318-231 US-PATENT-CLASS-318-341 US-PATENT-CLASS-331-135 US-PATENT-3,760,248	NASA-CASE-GSC-11222-1 US-PATENT-APPL-SN-251621 US-PATENT-CLASS-307-157 US-PATENT-CLASS-315-DIG.2 US-PATENT-CLASS-315-101 US-PATENT-CLASS-315-258 US-PATENT-CLASS-315-356 US-PATENT-CLASS-330-4.3 US-PATENT-CLASS-331-94.5 US-PATENT-3,758,877
N73-32013*	c 05	NASA-CASE-MFS-16570-1 US-PATENT-APPL-SN-228150 US-PATENT-CLASS-3-1.1 US-PATENT-CLASS-3-12 US-PATENT-CLASS-3-2 US-PATENT-CLASS-3-6 US-PATENT-3,751,733	N73-32152*	c 11	NASA-CASE-MSC-13789-1 US-PATENT-APPL-SN-166487 US-PATENT-CLASS-102-95 US-PATENT-CLASS-188-1C US-PATENT-CLASS-89-8 US-PATENT-3,763,740	NASA-CASE-LEW-11267-1 US-PATENT-APPL-SN-190316 US-PATENT-CLASS-29-196.2 US-PATENT-CLASS-29-196.6 US-PATENT-CLASS-29-197 US-PATENT-3,762,884
N73-32014*	c 05	NASA-CASE-MSC-11561-1 US-PATENT-APPL-SN-146940 US-PATENT-CLASS-137-535 US-PATENT-CLASS-272-DIG.1 US-PATENT-CLASS-272-DIG.4 US-PATENT-CLASS-272-DIG.5 US-PATENT-CLASS-272-79C US-PATENT-CLASS-91-186 US-PATENT-3,758,112	N73-32317*	c 14	NASA-CASE-NPO-12128-1 US-PATENT-APPL-SN-841845 US-PATENT-CLASS-250-207 US-PATENT-CLASS-250-83.9R US-PATENT-CLASS-313-104 US-PATENT-3,758,781	NASA-CASE-LEW-10436-1 US-PATENT-APPL-SN-221093 US-PATENT-CLASS-73-170 US-PATENT-CLASS-75-171 US-PATENT-3,762,918
N73-32015*	c 05	NASA-CASE-MSC-13436-1 US-PATENT-APPL-SN-173190 US-PATENT-CLASS-128-2.07 US-PATENT-CLASS-128-2.08 US-PATENT-CLASS-73-194E US-PATENT-CLASS-73-194M US-PATENT-3,759,249	N73-32318*	c 14	NASA-CASE-KSC-10728-1 US-PATENT-APPL-SN-292682 US-PATENT-CLASS-95-11 US-PATENT-CLASS-95-11.5 US-PATENT-3,759,152	NASA-CASE-MFS-20861-1 US-PATENT-APPL-SN-160860 US-PATENT-CLASS-75-135 US-PATENT-3,752,665
N73-32029*	c 06	NASA-CASE-NPO-10998-1 NASA-CASE-NPO-10999-1 US-PATENT-APPL-SN-145027 US-PATENT-CLASS-252-431N US-PATENT-CLASS-252-431R US-PATENT-CLASS-260-47UP US-PATENT-CLASS-260-567.6M US-PATENT-CLASS-260-93.5A US-PATENT-CLASS-260-93.5S US-PATENT-CLASS-260-94.2M US-PATENT-CLASS-260-94.2R US-PATENT-CLASS-260-94.7R US-PATENT-3,755,283	N73-32319*	c 14	NASA-CASE-KSC-10728-1 US-PATENT-APPL-SN-292682 US-PATENT-CLASS-95-11 US-PATENT-CLASS-95-11.5 US-PATENT-3,759,152	NASA-CASE-XLE-00209 US-PATENT-APPL-SN-60276 US-PATENT-CLASS-176-169 US-PATENT-3,759,787
N73-32030*	c 06	NASA-CASE-MFS-20979-2 US-PATENT-APPL-SN-100774 US-PATENT-APPL-SN-219590 US-PATENT-CLASS-260-448.2D US-PATENT-3,763,204	N73-32320*	c 14	NASA-CASE-GSC-11188-1 US-PATENT-APPL-SN-244440 US-PATENT-APPL-SN-80029 US-PATENT-CLASS-29-195Y US-PATENT-3,759,672	NASA-CASE-LEW-11015 US-PATENT-APPL-SN-235266 US-PATENT-CLASS-174-DIG.6 US-PATENT-CLASS-174-126CP US-PATENT-CLASS-29-599 US-PATENT-CLASS-335-216 US-PATENT-3,763,552
N73-32081*	c 08	NASA-CASE-MSC-12458-1 US-PATENT-APPL-SN-188927 US-PATENT-CLASS-235-152IE US-PATENT-CLASS-340-347DA US-PATENT-3,754,236	N73-32321*	c 14	NASA-CASE-XNP-05530 NASA-CASE-XNP-06933 US-PATENT-APPL-SN-488381 US-PATENT-CLASS-73-81 US-PATENT-3,379,052	NASA-CASE-NPO-12070-1 US-PATENT-APPL-SN-153542 US-PATENT-CLASS-165-105 US-PATENT-CLASS-165-141 US-PATENT-CLASS-165-185 US-PATENT-CLASS-239-127.1 US-PATENT-CLASS-60-267 US-PATENT-3,759,443
N73-32107*	c 09	NASA-CASE-MFS-20207-1 US-PATENT-APPL-SN-239574 US-PATENT-CLASS-318-254 US-PATENT-CLASS-318-328 US-PATENT-3,757,183	N73-32322*	c 14	NASA-CASE-LAR-10319-1 US-PATENT-APPL-SN-197870 US-PATENT-CLASS-346-110 US-PATENT-CLASS-95-42 US-PATENT-3,757,659	NASA-CASE-ERC-10365-1 US-PATENT-APPL-SN-99198 US-PATENT-CLASS-287-92 US-PATENT-CLASS-52-109 US-PATENT-CLASS-52-64 US-PATENT-CLASS-52-646 US-PATENT-CLASS-52-80 US-PATENT-3,757,476
N73-32108*	c 09	NASA-CASE-GSC-11368-1 US-PATENT-APPL-SN-237029 US-PATENT-CLASS-136-24 US-PATENT-3,759,746	N73-32323*	c 14	NASA-CASE-LAR-10440-1 US-PATENT-APPL-SN-229413 US-PATENT-CLASS-73-103 US-PATENT-CLASS-73-94 US-PATENT-3,757,568	NASA-CASE-LEW-11101-1 US-PATENT-APPL-SN-175983 US-PATENT-CLASS-244-1SC US-PATENT-CLASS-244-1SS US-PATENT-CLASS-47-1.4 US-PATENT-CLASS-47-17 US-PATENT-3,749,332
N73-32109*	c 09	NASA-CASE-GSC-11394-1 US-PATENT-APPL-SN-292698 US-PATENT-CLASS-136-89 US-PATENT-CLASS-250-212 US-PATENT-CLASS-321-1.5 US-PATENT-3,760,257	N73-32324*	c 14	NASA-CASE-LAR-10483-1 US-PATENT-APPL-SN-184090 US-PATENT-CLASS-73-12 US-PATENT-CLASS-73-170R US-PATENT-3,763,691	NASA-CASE-NPO-11942-1 US-PATENT-APPL-SN-266866 US-PATENT-CLASS-165-106 US-PATENT-CLASS-165-32 US-PATENT-CLASS-165-96 US-PATENT-CLASS-244-1SS US-PATENT-3,763,928
N73-32110*	c 09	NASA-CASE-KSC-10729-1 US-PATENT-APPL-SN-221714 US-PATENT-CLASS-343-112R US-PATENT-CLASS-343-113R US-PATENT-3,754,263	N73-32325*	c 15	NASA-CASE-LEW-11388-1 US-PATENT-APPL-SN-289033 US-PATENT-CLASS-219-117 US-PATENT-CLASS-219-91 US-PATENT-CLASS-29-497 US-PATENT-3,758,741	NASA-CASE-NPO-10767-1 US-PATENT-APPL-SN-241061 US-PATENT-APPL-SN-770417 US-PATENT-CLASS-260-77.5AP US-PATENT-3,755,265
N73-32111*	c 09	NASA-CASE-ARC-10463-1 US-PATENT-APPL-SN-241615 US-PATENT-CLASS-331-94.5 US-PATENT-3,753,148	N73-32359*	c 15	NASA-CASE-LEW-11152-1 US-PATENT-APPL-SN-198379 US-PATENT-CLASS-308-35 US-PATENT-CLASS-308-9 US-PATENT-3,759,588	NASA-CASE-ARC-10468-1 US-PATENT-APPL-SN-288857 US-PATENT-CLASS-355-18 US-PATENT-CLASS-95-12 US-PATENT-3,764,209
			N73-32360*	c 15	NASA-CASE-GSC-11163-1 US-PATENT-APPL-SN-205047	NASA-CASE-LEW-11026-1 US-PATENT-APPL-SN-196970

N73-33397*	c 16	US-PATENT-CLASS-29-487	N74-11283*	c 35	US-PATENT-CLASS-137-840	N74-13011*	c 46	US-PATENT-CLASS-317-234E
		US-PATENT-CLASS-29-494			US-PATENT-3,770,021			US-PATENT-CLASS-317-234F
		US-PATENT-CLASS-29-497.5			NASA-CASE-NPO-11659-1			US-PATENT-CLASS-317-234M
		US-PATENT-CLASS-29-498			US-PATENT-APPL-SN-228189			US-PATENT-CLASS-317-234N
		US-PATENT-CLASS-331-94.5A			US-PATENT-CLASS-178-6.6DD			US-PATENT-CLASS-317-234R
N74-10034*	c 02	US-PATENT-3,748,722	N74-11284*	c 35	US-PATENT-CLASS-179-100.2MD	N74-13129*	c 35	US-PATENT-3,778,685
		NASA-CASE-ARC-10444-1			US-PATENT-CLASS-179-100.2T			NASA-CASE-MSC-12408-1
		US-PATENT-APPL-SN-167719			US-PATENT-CLASS-340-174.1L			US-PATENT-APPL-SN-229916
		US-PATENT-CLASS-350-285			US-PATENT-3,770,903			US-PATENT-CLASS-423-579
		US-PATENT-CLASS-356-138			NASA-CASE-NPO-11919-1			US-PATENT-3,773,913
N74-10132*	c 32	US-PATENT-CLASS-356-148	N74-11300*	c 37	US-PATENT-APPL-SN-237694	N74-13130*	c 91	NASA-CASE-FRC-10051-1
		US-PATENT-CLASS-356-153			US-PATENT-CLASS-250-343			US-PATENT-APPL-SN-253725
		US-PATENT-CLASS-356-172			US-PATENT-3,766,380			US-PATENT-CLASS-254-93R
		US-PATENT-3,764,220			NASA-CASE-LEW-10533-2			US-PATENT-CLASS-73-88R
		NASA-CASE-LAR-10776-1			US-PATENT-APPL-SN-247055			US-PATENT-3,776,028
N74-10194*	c 33	US-PATENT-CLASS-244-145	N74-11301*	c 37	US-PATENT-CLASS-219-101	N74-13131*	c 39	NASA-CASE-NPO-12127-1
		US-PATENT-3,764,097			US-PATENT-CLASS-219-107			US-PATENT-APPL-SN-106106
		NASA-CASE-NPO-11302-2			US-PATENT-CLASS-219-78			US-PATENT-CLASS-250-219DF
		US-PATENT-APPL-SN-266822			US-PATENT-CLASS-29-497.5			US-PATENT-CLASS-250-83CD
		US-PATENT-APPL-SN-70967			US-PATENT-3,770,933			US-PATENT-3,752,996
N74-10195*	c 33	US-PATENT-CLASS-178-69.4R	N74-11313*	c 36	NASA-CASE-LAR-10170-1	N74-13177*	c 31	NASA-CASE-MFS-20730-1
		US-PATENT-3,766,315			US-PATENT-APPL-SN-217213			US-PATENT-APPL-SN-182977
		NASA-CASE-NPO-11962-1			US-PATENT-CLASS-117-105.2			US-PATENT-CLASS-269-48.1
		US-PATENT-APPL-SN-292681			US-PATENT-CLASS-29-460			US-PATENT-CLASS-83-452
		US-PATENT-CLASS-331-1A			US-PATENT-CLASS-29-498			US-PATENT-CLASS-83-602
N74-10223*	c 33	US-PATENT-CLASS-331-14	N74-12778*	c 52	US-PATENT-CLASS-29-503	N74-13178*	c 37	US-PATENT-CLASS-83-917
		US-PATENT-CLASS-331-17			US-PATENT-CLASS-29-527.2			US-PATENT-3,777,605
		US-PATENT-CLASS-331-178			US-PATENT-3,769,689			NASA-CASE-LAR-10910-1
		US-PATENT-CLASS-331-18			NASA-CASE-HQN-10790-1			US-PATENT-APPL-SN-239577
		US-PATENT-CLASS-331-4			US-PATENT-APPL-SN-235962			US-PATENT-CLASS-73-4R
N74-10415*	c 35	US-PATENT-CLASS-331-4	N74-12779*	c 54	US-PATENT-CLASS-333-83R	N74-13179*	c 37	US-PATENT-CLASS-73-420
		US-PATENT-3,764,933			US-PATENT-CLASS-333-97R			US-PATENT-3,777,546
		NASA-CASE-LEW-11617-1			US-PATENT-3,771,074			NASA-CASE-LAR-10547-1
		US-PATENT-APPL-SN-266832			NASA-CASE-MFS-20284-1			US-PATENT-APPL-SN-193980
		US-PATENT-CLASS-315-5.35			US-PATENT-APPL-SN-242027			US-PATENT-CLASS-264-294
N74-10474*	c 37	US-PATENT-CLASS-315-5.38	N74-12812*	c 27	US-PATENT-CLASS-128-2.05T	N74-13205*	c 36	US-PATENT-3,772,418
		US-PATENT-3,764,850			US-PATENT-CLASS-128-2.06F			NASA-CASE-LAR-10544-1
		NASA-CASE-LAR-10730-1			US-PATENT-CLASS-324-186			US-PATENT-APPL-SN-188928
		US-PATENT-APPL-SN-239573			US-PATENT-CLASS-324-78D			US-PATENT-CLASS-222-193
		US-PATENT-CLASS-235-150.3			US-PATENT-3,773,038			US-PATENT-3,776,432
N74-10521*	c 26	US-PATENT-CLASS-235-92CA	N74-12813*	c 25	NASA-CASE-MFS-21115-1	N74-13270*	c 27	NASA-CASE-LEW-10805-2
		US-PATENT-CLASS-235-92DM			US-PATENT-APPL-SN-266930			US-PATENT-APPL-SN-233743
		US-PATENT-CLASS-307-225R			US-PATENT-CLASS-222-309			US-PATENT-APPL-SN-29917
		US-PATENT-CLASS-328-48			US-PATENT-CLASS-222-340			US-PATENT-CLASS-29-182
		US-PATENT-3,764,790			US-PATENT-CLASS-222-387			US-PATENT-CLASS-29-420.5
N74-10907*	c 05	US-PATENT-CLASS-222-514	N74-12814*	c 27	US-PATENT-3,777,942	N74-13420*	c 04	US-PATENT-CLASS-75-200
		NASA-CASE-MFS-20335-1			NASA-CASE-ARC-10464-1			US-PATENT-CLASS-75-213
		US-PATENT-APPL-SN-238263			US-PATENT-APPL-SN-198472			US-PATENT-CLASS-75-214
		US-PATENT-CLASS-73-67.8S			US-PATENT-CLASS-260-2.5AM			US-PATENT-CLASS-75-226
		US-PATENT-3,765,229			US-PATENT-3,772,216			US-PATENT-3,775,101
N74-10942*	c 08	NASA-CASE-LEW-10326-3	N74-12887*	c 33	US-PATENT-CLASS-260-2.5L	N74-13436*	c 70	NASA-CASE-FRC-10049-1
		US-PATENT-CLASS-277-25			US-PATENT-CLASS-260-2.5L			US-PATENT-APPL-SN-232021
		US-PATENT-CLASS-277-27			US-PATENT-3,772,220			US-PATENT-CLASS-235.150.27
		US-PATENT-CLASS-277-96			NASA-CASE-NPO-11905-1			US-PATENT-CLASS-235-150.22
		US-PATENT-3,767,212			US-PATENT-APPL-SN-290030			US-PATENT-CLASS-235-150.26
N74-10975*	c 52	NASA-CASE-LEW-10805-3	N74-12888*	c 60	US-PATENT-CLASS-178-88	N74-14133*	c 31	US-PATENT-CLASS-244-77A
		US-PATENT-APPL-SN-266928			US-PATENT-CLASS-325-320			US-PATENT-CLASS-244-77B
		US-PATENT-APPL-SN-29917			US-PATENT-CLASS-329-104			US-PATENT-CLASS-343-108R
		US-PATENT-CLASS-148-126			US-PATENT-CLASS-329-122			US-PATENT-3,776,455
		US-PATENT-CLASS-29-420.5			US-PATENT-CLASS-329-126			NASA-CASE-LAR-10385-2
N74-11000*	c 32	US-PATENT-CLASS-75-200	N74-12912*	c 32	US-PATENT-3,771,959	N74-14784*	c 44	US-PATENT-APPL-SN-239803
		US-PATENT-CLASS-75-226			NASA-CASE-ARC-10180-1			US-PATENT-APPL-SN-38816
		US-PATENT-3,765,958			US-PATENT-APPL-SN-136253			US-PATENT-CLASS-117-106A
		NASA-CASE-XMF-02263			US-PATENT-CLASS-260-2.5L			US-PATENT-CLASS-117-33.3
		US-PATENT-APPL-SN-78766			US-PATENT-3,772,220			US-PATENT-3,779,788
N74-11049*	c 33	US-PATENT-CLASS-D71-1	N74-12913*	c 33	US-PATENT-CLASS-340-173LM	N74-14845*	c 54	NASA-CASE-LEW-11058-1
		US-PATENT-DES-228,688			US-PATENT-CLASS-340-173LM			US-PATENT-APPL-SN-233519
		NASA-CASE-MSC-12394-1			US-PATENT-3,778,786			US-PATENT-CLASS-60-258
		US-PATENT-APPL-SN-341662			NASA-CASE-NPO-11850-1			US-PATENT-CLASS-60-259
		US-PATENT-CLASS-244-83			US-PATENT-APPL-SN-186700			US-PATENT-3,777,490
N74-11050*	c 33	US-PATENT-CLASS-318-580	N74-12951*	c 33	US-PATENT-CLASS-343-18B	N74-14845*	c 54	NASA-CASE-LAR-10782-1
		US-PATENT-CLASS-318-628			US-PATENT-CLASS-343-6.5R			US-PATENT-APPL-SN-197689
		US-PATENT-3,771,037			US-PATENT-CLASS-343-6.5SS			US-PATENT-CLASS-264-102
		NASA-CASE-MSC-13972-1			US-PATENT-3,772,691			US-PATENT-3,780,151
		US-PATENT-APPL-SN-200040			NASA-CASE-LEW-11162-1			NASA-CASE-LEW-11069-1

N74-14920*	c 62	US-PATENT-CLASS-9-11A	N74-15130*	c 38	US-PATENT-CLASS-29-148.4B	N74-17930*	c 33	US-PATENT-CLASS-317-16
		US-PATENT-3,781,933			US-PATENT-3,781,958			US-PATENT-CLASS-317-31
N74-14935*	c 33	NASA-CASE-MSC-13932-1	N74-15145*	c 36	NASA-CASE-MFS-20767-1	N74-17955*	c 09	NASA-CASE-NUC-10107-1
		US-PATENT-APPL-SN-229354			US-PATENT-APPL-SN-196898			US-PATENT-APPL-SN-201700
		US-PATENT-CLASS-235-153AK			US-PATENT-CLASS-73-67.8S			US-PATENT-CLASS-324-102
		US-PATENT-3,783,250			US-PATENT-3,777,552			US-PATENT-CLASS-324-118
		NASA-CASE-MFS-21462-1			NASA-CASE-NPO-11856-1			US-PATENT-CLASS-329-50
N74-14939*	c 33	US-PATENT-APPL-SN-239576	N74-15146*	c 35	US-PATENT-APPL-SN-235268	N74-18088*	c 35	US-PATENT-CLASS-10812-1
		US-PATENT-CLASS-219-477			US-PATENT-CLASS-250-217SS			US-PATENT-APPL-SN-263815
		US-PATENT-CLASS-219-539			US-PATENT-CLASS-331-94.5K			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-338-320			US-PATENT-CLASS-331-94.5S			US-PATENT-3,791,207
		US-PATENT-3,732,397			US-PATENT-CLASS-350-6			NASA-CASE-LAR-11027-1
N74-14939*	c 33	NASA-CASE-FRC-10072-1	N74-15146*	c 35	US-PATENT-CLASS-356-152	N74-18089*	c 31	US-PATENT-APPL-SN-275118
		US-PATENT-APPL-SN-162100			US-PATENT-CLASS-356-4			US-PATENT-CLASS-250-338
		US-PATENT-CLASS-330-10			US-PATENT-CLASS-356-5			US-PATENT-CLASS-250-370
		US-PATENT-CLASS-330-35			US-PATENT-3,781,111			US-PATENT-CLASS-250-371
		US-PATENT-CLASS-330-9			NASA-CASE-MFS-21455-1	N74-18089*	c 31	US-PATENT-3,790,795
N74-14956*	c 33	US-PATENT-3,783,399	N74-15395*	c 38	US-PATENT-APPL-SN-281877			NASA-CASE-LAR-10318-1
		NASA-CASE-MSC-17832-1			US-PATENT-CLASS-350-3.5			US-PATENT-APPL-SN-224489
		US-PATENT-APPL-SN-293727			US-PATENT-CLASS-356-106			US-PATENT-CLASS-156-245
		US-PATENT-CLASS-307-127			US-PATENT-CLASS-73-71.3			US-PATENT-CLASS-156-247
		US-PATENT-CLASS-317-33SC			US-PATENT-3,782,825			US-PATENT-CLASS-156-285
N74-15089*	c 19	US-PATENT-CLASS-317-43	N74-15453*	c 07	US-PATENT-CLASS-73-67.5R	N74-18090*	c 35	US-PATENT-CLASS-156-309
		US-PATENT-CLASS-317-46			US-PATENT-CLASS-73-71.5U			NASA-CASE-NPO-13160-1
		US-PATENT-CLASS-317-47			US-PATENT-3,782,177			US-PATENT-APPL-SN-359157
		US-PATENT-CLASS-317-48			NASA-CASE-LEW-11569-1			US-PATENT-CLASS-321-8R
		US-PATENT-3,783,354			US-PATENT-APPL-SN-316618			US-PATENT-CLASS-324-57R
N74-15090*	c 35	NASA-CASE-LAR-10586-1	N74-15652*	c 34	US-PATENT-CLASS-181-43	N74-18123*	c 37	US-PATENT-3,795,858
		US-PATENT-APPL-SN-289049			US-PATENT-3,780,827			NASA-CASE-LAR-10634-1
		US-PATENT-CLASS-102-70.2R			NASA-CASE-LAR-10105-1			US-PATENT-APPL-SN-214084
		US-PATENT-CLASS-244-1SA			US-PATENT-APPL-SN-170680			US-PATENT-CLASS-23-253PC
		US-PATENT-CLASS-244-3.16			US-PATENT-CLASS-73-86			US-PATENT-CLASS-23-259
N74-15090*	c 35	US-PATENT-CLASS-250-203R	N74-15778*	c 51	US-PATENT-CLASS-73-71.5U	N74-18124*	c 31	US-PATENT-CLASS-259-72
		US-PATENT-CLASS-250-237R			US-PATENT-3,782,181			US-PATENT-CLASS-312-209
		US-PATENT-3,780,966			NASA-CASE-ARC-10302-1			US-PATENT-CLASS-356-197
		NASA-CASE-NPO-11432-2			US-PATENT-APPL-SN-203271			US-PATENT-CLASS-356-85
		US-PATENT-APPL-SN-258152			US-PATENT-CLASS-119-51.13	N74-18124*	c 31	US-PATENT-3,790,347
N74-15091*	c 35	US-PATENT-APPL-SN-88435	N74-15831*	c 35	US-PATENT-CLASS-119-51.5			NASA-CASE-LAR-10489-1
		US-PATENT-CLASS-250-211J			US-PATENT-CLASS-119-51R			US-PATENT-APPL-SN-198763
		US-PATENT-CLASS-250-214			US-PATENT-CLASS-119-52AF			US-PATENT-CLASS-264-102
		US-PATENT-CLASS-317-235N			US-PATENT-CLASS-119-54			US-PATENT-3,790,650
		US-PATENT-3,781,549			US-PATENT-CLASS-221-265	N74-18125*	c 37	NASA-CASE-MFS-21309-1
N74-15091*	c 35	NASA-CASE-LAR-11155-1	N74-16135*	c 35	US-PATENT-3,782,334			US-PATENT-APPL-SN-244519
		US-PATENT-APPL-SN-313381			NASA-CASE-GSC-11553-1			US-PATENT-CLASS-180-79.3
		US-PATENT-CLASS-250-360			US-PATENT-APPL-SN-177985			US-PATENT-CLASS-301-5P
		US-PATENT-CLASS-250-361			US-PATENT-CLASS-178-6.7R			US-PATENT-3,789,947
		US-PATENT-CLASS-250-369	N74-17153*	c 35	US-PATENT-CLASS-219-216	N74-18126*	c 37	NASA-CASE-MFS-21364-1
N74-15092*	c 35	US-PATENT-CLASS-250-492			US-PATENT-CLASS-219-388			US-PATENT-APPL-SN-214006
		US-PATENT-3,781,562			US-PATENT-CLASS-34-162			US-PATENT-CLASS-156-331
		NASA-CASE-LAR-10862-1			US-PATENT-CLASS-346-108			US-PATENT-CLASS-161-182
		US-PATENT-APPL-SN-271951			US-PATENT-CLASS-346-138			US-PATENT-CLASS-161-192
N74-15093*	c 35	US-PATENT-CLASS-73-4V	N74-17153*	c 35	US-PATENT-CLASS-346-24			US-PATENT-CLASS-161-142
		US-PATENT-3,780,563			US-PATENT-CLASS-95-89R			US-PATENT-CLASS-161-43
		NASA-CASE-ARC-10442-1			US-PATENT-3,781,902	N74-18127*	c 37	US-PATENT-CLASS-161-93
		US-PATENT-APPL-SN-280032			NASA-CASE-LAR-10595-1			US-PATENT-CLASS-260-2R
		US-PATENT-CLASS-165-109	N74-17283*	c 27	US-PATENT-APPL-SN-273240			US-PATENT-CLASS-264-135
N74-15094*	c 35	US-PATENT-CLASS-165-2			US-PATENT-CLASS-340-12R			US-PATENT-CLASS-264-136
		US-PATENT-CLASS-259-DIG.18			US-PATENT-CLASS-340-5R			US-PATENT-CLASS-264-136
		US-PATENT-CLASS-259-60			US-PATENT-CLASS-340-8R	N74-18128*	c 37	US-PATENT-CLASS-264-257
		US-PATENT-CLASS-62-45			US-PATENT-3,783,443			US-PATENT-3,790,432
		US-PATENT-3,782,698	N74-17283*	c 27	NASA-CASE-MFS-21087-1			NASA-CASE-MFS-21481-1
N74-15094*	c 35	NASA-CASE-NPO-13044-1			US-PATENT-APPL-SN-149283	N74-18127*	c 37	US-PATENT-APPL-SN-266771
		US-PATENT-APPL-SN-305012			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-128-25R
		US-PATENT-CLASS-73-497			US-PATENT-3,752,556			US-PATENT-CLASS-272-73
		US-PATENT-CLASS-73-517B	N74-17283*	c 27	NASA-CASE-MFS-20486-2			US-PATENT-CLASS-272-80
		US-PATENT-CLASS-74-5.6			US-PATENT-APPL-SN-292382			US-PATENT-CLASS-74-594.6
N74-15095*	c 74	US-PATENT-3,782,205			US-PATENT-APPL-SN-64212			US-PATENT-CLASS-74-594.7
		NASA-CASE-MSC-14096-1			US-PATENT-CLASS-260-29.6S	N74-18128*	c 37	US-PATENT-3,788,163
		US-PATENT-APPL-SN-242662			US-PATENT-3,784,499			NASA-CASE-LEW-11387-1
		US-PATENT-CLASS-350-236	N74-17853*	c 54	NASA-CASE-MFS-21163-1			US-PATENT-APPL-SN-247090
		US-PATENT-CLASS-350-285			US-PATENT-APPL-SN-266925			US-PATENT-CLASS-29-482
N74-15125*	c 37	US-PATENT-CLASS-350-7			US-PATENT-CLASS-222-324			US-PATENT-CLASS-29-488
		US-PATENT-CLASS-356-216			US-PATENT-CLASS-224-444	N74-18323*	c 35	US-PATENT-CLASS-29-497
		US-PATENT-CLASS-356-43			US-PATENT-3,790,037			US-PATENT-CLASS-29-498
		US-PATENT-3,782,835	N74-17885*	c 35	NASA-CASE-MSC-13855-1			US-PATENT-3,787,959
		NASA-CASE-XLE-10326-4			US-PATENT-APPL-SN-196931	N74-18551*	c 25	NASA-CASE-MFS-21136-1
N74-15126*	c 35	US-PATENT-APPL-SN-220251			US-PATENT-CLASS-325-38B			US-PATENT-APPL-SN-262430
		US-PATENT-APPL-SN-54540			US-PATENT-CLASS-332-11D			US-PATENT-CLASS-308-10
		US-PATENT-APPL-SN-723465			US-PATENT-CLASS-340-347AD			US-PATENT-CLASS-74-5.7
		US-PATENT-CLASS-277-27	N74-17927*	c 33	US-PATENT-3,795,900			US-PATENT-3,763,708
		US-PATENT-CLASS-277-91			NASA-CASE-NPO-13138-1	N74-18552*	c 34	NASA-CASE-LAR-11053-1
N74-15126*	c 35	US-PATENT-3,782,737			US-PATENT-APPL-SN-335201			US-PATENT-APPL-SN-281875
		NASA-CASE-ARC-10441-1			US-PATENT-CLASS-328-155			US-PATENT-CLASS-73-15R
		US-PATENT-APPL-SN-280029			US-PATENT-CLASS-333-16			US-PATENT-3,789,654
		US-PATENT-CLASS-259-98	N74-17928*	c 33	US-PATENT-CLASS-333-18			NASA-CASE-NPO-11120-1
N74-15127*	c 35	US-PATENT-CLASS-417-470			US-PATENT-3,790,906	N74-18552*	c 34	US-PATENT-APPL-SN-39343
		US-PATENT-CLASS-417-471			NASA-CASE-NPO-11966-1			US-PATENT-CLASS-165-105
		US-PATENT-3,782,699			NASA-CASE-NPO-13159-1			US-PATENT-CLASS-267-166
		NASA-CASE-NPO-11682-1			US-PATENT-APPL-SN-284245			US-PATENT-CLASS-29-157.3R
		US-PATENT-APPL-SN-187365	N74-17929*	c 33	US-PATENT-CLASS-100-8			US-PATENT-3,789,920
N74-15128*	c 37	US-PATENT-CLASS-23-284			US-PATENT-CLASS-336-210	N74-19310*	c 72	NASA-CASE-HQN-10740-1
		US-PATENT-3,782,904			US-PATENT-3,792,399			US-PATENT-APPL-SN-266943
		NASA-CASE-LEW-11087-2			NASA-CASE-ARC-10197-1			US-PATENT-CLASS-356-106R
		US-PATENT-APPL-SN-201904			US-PATENT-APPL-SN-310624			US-PATENT-CLASS-356-112
		US-PATENT-APPL-SN-280390						

			US-PATENT-CLASS-356-28				US-PATENT-CLASS-325-320				US-PATENT-3,800,253
			US-PATENT-3,795,448				US-PATENT-CLASS-325-419		N74-21057*	c 37	NASA-CASE-LAR-10941-1
N74-19528*	c 09		NASA-CASE-LAR-10426-1				US-PATENT-CLASS-329-122				US-PATENT-APPL-SN-289048
			US-PATENT-APPL-SN-239575				US-PATENT-3,806,815				US-PATENT-CLASS-29-470.1
			US-PATENT-CLASS-73-15.6	N74-20813*	c 32		NASA-CASE-FRC-10071-1		N74-21058*	c 37	US-PATENT-3,797,098
			US-PATENT-CLASS-73-91				US-PATENT-APPL-SN-307727				NASA-CASE-MFS-22411-1
			US-PATENT-3,795,134				US-PATENT-CLASS-178-7.7				US-PATENT-APPL-SN-382262
N74-19692*	c 44		NASA-CASE-GSC-11367-1				US-PATENT-CLASS-315-18				US-PATENT-CLASS-260-448.2N
			US-PATENT-APPL-SN-236985				US-PATENT-CLASS-315-22		N74-21059*	c 31	US-PATENT-3,801,617
			US-PATENT-CLASS-136-36				US-PATENT-3,803,445				NASA-CASE-LAR-10409-1
			US-PATENT-3,759,747	N74-20836*	c 60		NASA-CASE-ERC-10180-1				US-PATENT-APPL-SN-340864
N74-19693*	c 44		NASA-CASE-NPO-11806-1				US-PATENT-APPL-SN-838278				US-PATENT-CLASS-29-423
			US-PATENT-APPL-SN-228163				US-PATENT-CLASS-235-164		N74-21060*	c 37	US-PATENT-3,798,741
			US-PATENT-CLASS-136-20				US-PATENT-3,803,393				NASA-CASE-NPO-13105-1
			US-PATENT-CLASS-136-30				NASA-CASE-XLE-2529-3				US-PATENT-APPL-SN-283502
			US-PATENT-3,790,409	N74-20859*	c 33		US-PATENT-APPL-SN-288856				US-PATENT-CLASS-60-25
N74-19769*	c 24		NASA-CASE-ERC-10073-1				US-PATENT-APPL-SN-487929		N74-21061*	c 37	US-PATENT-3,798,896
			US-PATENT-APPL-SN-856253				US-PATENT-APPL-SN-848403				NASA-CASE-LEW-11076-1
			US-PATENT-CLASS-117-95				US-PATENT-CLASS-315-211				US-PATENT-APPL-SN-238264
			US-PATENT-3,796,592				US-PATENT-CLASS-315-228				US-PATENT-CLASS-308-73
N74-19788*	c 32		NASA-CASE-NPO-11820-1				US-PATENT-CLASS-331-94.5D		N74-21062*	c 35	US-PATENT-3,804,472
			US-PATENT-APPL-SN-266912				US-PATENT-CLASS-332-7.51				NASA-CASE-LAR-10295-1
			US-PATENT-CLASS-307-237				US-PATENT-3,806,835				US-PATENT-APPL-SN-221685
			US-PATENT-CLASS-328-160	N74-20860*	c 33		NASA-CASE-GSC-11446-1				US-PATENT-CLASS-73-12
			US-PATENT-CLASS-328-168				US-PATENT-APPL-SN-263230				US-PATENT-CLASS-73-432
			US-PATENT-CLASS-328-172				US-PATENT-CLASS-343-DIG.2		N74-21063*	c 37	US-PATENT-3,805,622
			US-PATENT-CLASS-333-14				US-PATENT-CLASS-343-1005A				NASA-CASE-LEW-10698-1
			US-PATENT-3,800,237				US-PATENT-CLASS-343-100ST				US-PATENT-APPL-SN-30498
N74-19790*	c 32		NASA-CASE-MFS-21540-1				US-PATENT-CLASS-343-854				US-PATENT-CLASS-106-52
			US-PATENT-APPL-SN-333912				US-PATENT-3,806,932				US-PATENT-CLASS-117-129
			US-PATENT-CLASS-178-7.1	N74-20861*	c 33		NASA-CASE-GSC-11560-1				US-PATENT-CLASS-161-196
			US-PATENT-CLASS-325-148				US-PATENT-APPL-SN-361906				US-PATENT-CLASS-65-DIG.11
			US-PATENT-3,800,224				US-PATENT-CLASS-350-269		N74-21064*	c 37	US-PATENT-3,804,703
N74-19870*	c 44		NASA-CASE-MFS-21470-1				US-PATENT-CLASS-354-234				NASA-CASE-LEW-11087-3
			US-PATENT-APPL-SN-340871				US-PATENT-CLASS-95-53EA				US-PATENT-APPL-SN-201904
			US-PATENT-CLASS-325-62				US-PATENT-3,804,506				US-PATENT-APPL-SN-346361
			US-PATENT-CLASS-333-17	N74-20862*	c 33		NASA-CASE-GSC-11513-1				US-PATENT-CLASS-308-188
			US-PATENT-CLASS-343-17.7				US-PATENT-APPL-SN-315069				US-PATENT-CLASS-308-191
			US-PATENT-CLASS-343-7.5				US-PATENT-CLASS-331-108A				US-PATENT-3,802,753
			US-PATENT-3,795,910				US-PATENT-CLASS-331-115		N74-21065*	c 37	NASA-CASE-NPO-11951-1
N74-20008*	c 74		NASA-CASE-GSC-11188-3				US-PATENT-CLASS-331-116R				US-PATENT-APPL-SN-287150
			US-PATENT-APPL-SN-244566				US-PATENT-CLASS-331-159				US-PATENT-CLASS-137-628
			US-PATENT-APPL-SN-80029				US-PATENT-3,806,831				US-PATENT-CLASS-251-120
			US-PATENT-CLASS-117-45	N74-20863*	c 32		NASA-CASE-GSC-11909				US-PATENT-CLASS-251-122
			US-PATENT-3,799,793				US-PATENT-APPL-SN-244158				US-PATENT-CLASS-251-210
N74-20009*	c 36		NASA-CASE-NPO-11861-1				US-PATENT-CLASS-343-730				US-PATENT-3,802,660
			US-PATENT-APPL-SN-266911				US-PATENT-CLASS-343-786		N74-21091*	c 36	NASA-CASE-GSC-11262-1
			US-PATENT-CLASS-178-DIG.1				US-PATENT-CLASS-343-797				US-PATENT-APPL-SN-162380
			US-PATENT-CLASS-178-6				US-PATENT-CLASS-343-853				US-PATENT-CLASS-250-204
			US-PATENT-CLASS-178-7.6				US-PATENT-3,803,617				US-PATENT-CLASS-33-285
			US-PATENT-3,800,074	N74-20864*	c 32		NASA-CASE-GSC-11428-1				US-PATENT-CLASS-356-141
N74-20063*	c 37		NASA-CASE-LAR-10129-2				US-PATENT-APPL-SN-292685				US-PATENT-CLASS-356-152
			US-PATENT-APPL-SN-319410				US-PATENT-CLASS-343-708				US-PATENT-CLASS-356-172
			US-PATENT-APPL-SN-99201				US-PATENT-CLASS-343-769				US-PATENT-3,804,525
			US-PATENT-CLASS-312-1				US-PATENT-CLASS-343-853		N74-21156*	c 27	NASA-CASE-ARC-10592-1
			US-PATENT-3,796,473				US-PATENT-3,805,266				US-PATENT-APPL-SN-321179
N74-20329*	c 76		NASA-CASE-GSC-11425-1				NASA-CASE-HQN-10832-1				US-PATENT-CLASS-260.46.5E
			US-PATENT-APPL-SN-206266	N74-21014*	c 71		US-PATENT-APPL-SN-301417				US-PATENT-3,803,090
			US-PATENT-CLASS-148-1.5				US-PATENT-CLASS-178-DIG.32		N74-21300*	c 70	NASA-CASE-ARC-10516-1
			US-PATENT-3,799,813				US-PATENT-CLASS-178-5.8R				US-PATENT-APPL-SN-267768
N74-20646*	c 02		NASA-CASE-LEW-11188-1				US-PATENT-CLASS-178-7.2				US-PATENT-CLASS-350-270
			US-PATENT-APPL-SN-152328				US-PATENT-CLASS-340-407				US-PATENT-CLASS-354-234
			US-PATENT-CLASS-137-15.1				US-PATENT-CLASS-35-35A				US-PATENT-3,797,919
			US-PATENT-CLASS-137-15.2				US-PATENT-3,800,082		N74-21304*	c 74	NASA-CASE-GSC-11353-1
			US-PATENT-CLASS-244-53B				NASA-CASE-LAR-10626-1				US-PATENT-APPL-SN-260241
			US-PATENT-3,799,475	N74-21015*	c 19		US-PATENT-APPL-SN-202750				US-PATENT-CLASS-250-231SE
N74-20725*	c 54		NASA-CASE-MFS-22102-1				US-PATENT-CLASS-33-1SA				US-PATENT-CLASS-350-299
			US-PATENT-APPL-SN-341621				US-PATENT-CLASS-33-46R				US-PATENT-CLASS-356-152
			US-PATENT-CLASS-4-10				US-PATENT-3,798,778				US-PATENT-3,802,779
			US-PATENT-CLASS-4-120	N74-21017*	c 35		NASA-CASE-MFS-21660-1				NASA-CASE-GSC-11602-1
			US-PATENT-3,805,303				US-PATENT-APPL-SN-310616				US-PATENT-APPL-SN-298157
N74-20726*	c 52		NASA-CASE-ARC-10597-1				US-PATENT-CLASS-324-83Q				US-PATENT-CLASS-315-10
			US-PATENT-APPL-SN-281876				US-PATENT-3,806,802				US-PATENT-CLASS-315-12
			US-PATENT-CLASS-128-2V				NASA-CASE-LEW-10981-1				US-PATENT-3,806,756
			US-PATENT-CLASS-73-67.9	N74-21018*	c 35		US-PATENT-APPL-SN-214089				NASA-CASE-ARC-10596-1
			US-PATENT-3,802,253				US-PATENT-CLASS-310-11				US-PATENT-APPL-SN-267862
N74-20728*	c 52		NASA-CASE-MFS-21415-1				US-PATENT-CLASS-324-34FL				US-PATENT-CLASS-330-28
			US-PATENT-APPL-SN-318152				US-PATENT-CLASS-73-194EM				US-PATENT-CLASS-330-59
			US-PATENT-CLASS-128-2.07				US-PATENT-3,802,262				US-PATENT-3,811,094
			US-PATENT-CLASS-128-2.08	N74-21019*	c 35		NASA-CASE-GSC-11600-1				NASA-CASE-NPO-10617-1
			US-PATENT-CLASS-73-23				US-PATENT-APPL-SN-318357				US-PATENT-APPL-SN-828920
			US-PATENT-CLASS-73-421.5R				US-PATENT-CLASS-73-1F				US-PATENT-CLASS-73-190H
			US-PATENT-3,799,149				US-PATENT-3,802,249		N74-22095*	c 35	US-PATENT-3,648,516
N74-20809*	c 32		NASA-CASE-MSC-12462-1				NASA-CASE-LEW-11388-2				NASA-CASE-XLE-04791
			US-PATENT-APPL-SN-274360	N74-21055*	c 37		US-PATENT-APPL-SN-289033				US-PATENT-APPL-SN-582213
			US-PATENT-CLASS-178-88				US-PATENT-APPL-SN-293726				US-PATENT-CLASS-330-103
			US-PATENT-CLASS-325-320				US-PATENT-CLASS-29-487				US-PATENT-3,404,348
			US-PATENT-CLASS-325-423				US-PATENT-CLASS-29-494				NASA-CASE-MFS-20922-1
			US-PATENT-3,800,227				US-PATENT-CLASS-29-498				US-PATENT-APPL-SN-220274
N74-20810*	c 32		NASA-CASE-MSC-12494-1				US-PATENT-CLASS-29-504				US-PATENT-CLASS-244-1SS
			US-PATENT-APPL-SN-304705				US-PATENT-3,798,748				US-PATENT-CLASS-49-68
			US-PATENT-CLASS-325-321	N74-21056*	c 37		NASA-CASE-LAR-10688-1				US-PATENT-CLASS-61-83
			US-PATENT-CLASS-325-419				US-PATENT-APPL-SN-285705				US-PATENT-3,807,656
			US-PATENT-3,806,816				US-PATENT-CLASS-235-151				NASA-CASE-ARC-10447-1
N74-20811*	c 32		NASA-CASE-NPO-13103-1				US-PATENT-CLASS-235-92PE		N74-22771*	c 52	US-PATENT-APPL-SN-311175
			US-PATENT-APPL-SN-338484				US-PATENT-CLASS-235-92SB				

		US-PATENT-CLASS-128-214E				US-PATENT-CLASS-128-2.05S				US-PATENT-CLASS-181-33HB
		US-PATENT-CLASS-235-151.3				US-PATENT-3,814,083				US-PATENT-CLASS-239-265.17
N74-22814*	c 33	US-PATENT-3,809,871	N74-26654*	c 32	NASA-CASE-NPO-13081-1	US-PATENT-APPL-SN-297128	N74-27519*	c 44	NASA-CASE-MFS-20761-1	US-PATENT-3,820,630
		US-PATENT-APPL-SN-345372			US-PATENT-CLASS-178-67	US-PATENT-CLASS-325-30			US-PATENT-APPL-SN-326327	
		US-PATENT-CLASS-307-215			US-PATENT-CLASS-325-30	US-PATENT-3,816,657			US-PATENT-CLASS-136-182	
		US-PATENT-CLASS-307-243	N74-26732*	c 33	NASA-CASE-MFS-21698-1	US-PATENT-APPL-SN-37050			US-PATENT-CLASS-324-29.5	
		US-PATENT-CLASS-307-290			US-PATENT-CLASS-331-109	US-PATENT-CLASS-331-117R	N74-27566*	c 52	NASA-CASE-GSC-11531-1	US-PATENT-3,818,325
N74-22864*	c 33	US-PATENT-3,808,464			US-PATENT-CLASS-331-183	US-PATENT-3,815,048			US-PATENT-APPL-SN-291845	
		NASA-CASE-XER-11046-2	N74-26767*	c 73	NASA-CASE-NPO-13112-1	US-PATENT-CLASS-331-183			US-PATENT-CLASS-128-2.05E	
		US-PATENT-APPL-SN-810579			US-PATENT-APPL-SN-267572	US-PATENT-CLASS-313-61S	N74-27612*	c 32	US-PATENT-CLASS-73-398AR	US-PATENT-3,811,429
		US-PATENT-APPL-SN-87597			US-PATENT-CLASS-250-499	US-PATENT-CLASS-313-61S			US-PATENT-APPL-SN-324029	
		US-PATENT-CLASS-321-45R			US-PATENT-3,816,785	US-PATENT-3,816,785			US-PATENT-CLASS-117-2R	
N74-22865*	c 33	US-PATENT-3,808,511	N74-26945*	c 35	NASA-CASE-MFS-21556-1	US-PATENT-APPL-SN-340791			US-PATENT-CLASS-156-94	
		NASA-CASE-LAR-10168-1			US-PATENT-CLASS-177-200	US-PATENT-CLASS-177-211			US-PATENT-CLASS-179-100.2A	
		US-PATENT-APPL-SN-354407			US-PATENT-CLASS-177-246	US-PATENT-CLASS-177-246			US-PATENT-CLASS-179-100.2B	
		US-PATENT-CLASS-174-DIG.8			US-PATENT-CLASS-177-141A	US-PATENT-3,812,924			US-PATENT-CLASS-264-36	
		US-PATENT-CLASS-174-69			US-PATENT-3,812,924	NASA-CASE-MFS-22040-1	N74-27682*	c 33	US-PATENT-3,819,440	
		US-PATENT-CLASS-174-70R			US-PATENT-APPL-SN-365644	US-PATENT-CLASS-350-3.5			NASA-CASE-ARC-10593-1	
		US-PATENT-CLASS-244-151R	N74-26946*	c 35	US-PATENT-CLASS-350-3.5	US-PATENT-CLASS-96-38.3			US-PATENT-APPL-SN-310193	
N74-22885*	c 33	US-PATENT-3,809,800			US-PATENT-CLASS-96-79	US-PATENT-CLASS-96-79			US-PATENT-CLASS-250-207	
		NASA-CASE-MFS-21671-1			US-PATENT-3,815,969	US-PATENT-CLASS-174-111	N74-27683*	c 33	US-PATENT-CLASS-307-252Q	
		US-PATENT-APPL-SN-329958			NASA-CASE-ARC-10633-1	US-PATENT-APPL-SN-354611			US-PATENT-3,821,546	
		US-PATENT-CLASS-323-106	N74-26947*	c 25	US-PATENT-APPL-SN-354611	US-PATENT-CLASS-250-304			NASA-CASE-LEW-10950-1	
		US-PATENT-CLASS-323-122			US-PATENT-CLASS-250-343	US-PATENT-CLASS-250-343			US-PATENT-APPL-SN-273222	
		US-PATENT-CLASS-323-128			US-PATENT-CLASS-250-373	US-PATENT-3,814,939			US-PATENT-CLASS-174-15C	
		US-PATENT-3,808,517	N74-26948*	c 25	US-PATENT-3,814,939	NASA-CASE-MFS-21395-1			US-PATENT-CLASS-174-28	
N74-23039*	c 34	NASA-CASE-GSC-11620-1			US-PATENT-APPL-SN-260093	US-PATENT-CLASS-204-180R			US-PATENT-CLASS-310-4R	
		US-PATENT-APPL-SN-280305			US-PATENT-3,814,678	US-PATENT-CLASS-204-180R			US-PATENT-3,821,462	
		US-PATENT-CLASS-126-270	N74-26949*	c 35	NASA-CASE-GSC-11492-1	US-PATENT-APPL-SN-372148	N74-27730*	c 34	US-PATENT-CLASS-73-147	
		US-PATENT-CLASS-244-127			US-PATENT-CLASS-250-374	US-PATENT-CLASS-250-385			US-PATENT-CLASS-73-3	
		US-PATENT-CLASS-244-31			US-PATENT-CLASS-250-385	US-PATENT-CLASS-313-93			US-PATENT-CLASS-73-3	
N74-23040*	c 35	US-PATENT-3,807,384			US-PATENT-3,812,358	US-PATENT-CLASS-313-93			US-PATENT-3,817,082	
		NASA-CASE-NPO-11932-1	N74-26976*	c 37	NASA-CASE-MFS-21846-1	US-PATENT-APPL-SN-359958	N74-27744*	c 34	NASA-CASE-MFS-21394-1	
		NASA-CASE-NPO-13127-1			US-PATENT-CLASS-188-163	US-PATENT-CLASS-188-171			US-PATENT-APPL-SN-258171	
		US-PATENT-APPL-SN-311234			US-PATENT-CLASS-188-163	US-PATENT-CLASS-188-171			US-PATENT-CLASS-204-180R	
		US-PATENT-CLASS-356-1065			US-PATENT-3,812,936	NASA-CASE-MFS-22133-1			US-PATENT-CLASS-204-299	
		US-PATENT-CLASS-356-113			US-PATENT-APPL-SN-337487	US-PATENT-CLASS-29-203MW			US-PATENT-3,821,102	
N74-23064*	c 37	US-PATENT-3,809,481			NASA-CASE-MFS-22133-1	US-PATENT-CLASS-3,815,205	N74-27859*	c 34	NASA-CASE-GSC-11434-1	
		NASA-CASE-LAR-10900-1			US-PATENT-APPL-SN-337487	US-PATENT-CLASS-29-203MW			US-PATENT-APPL-SN-263498	
		US-PATENT-APPL-SN-290021			US-PATENT-3,814,653	US-PATENT-CLASS-11028-1			US-PATENT-CLASS-73-190R	
		US-PATENT-CLASS-161-116	N74-26977*	c 33	NASA-CASE-MFS-22133-1	US-PATENT-APPL-SN-219435			US-PATENT-3,813,937	
		US-PATENT-3,809,601			US-PATENT-CLASS-250-374	US-PATENT-CLASS-156-285	N74-27860*	c 35	NASA-CASE-MSC-14081-1	
N74-23065*	c 31	NASA-CASE-NPO-11758-1			US-PATENT-CLASS-250-385	US-PATENT-3,814,653			US-PATENT-APPL-SN-331760	
		US-PATENT-APPL-SN-266913			US-PATENT-CLASS-313-93	US-PATENT-CLASS-156-285			US-PATENT-CLASS-250-576	
		US-PATENT-CLASS-204-222			US-PATENT-3,812,358	US-PATENT-CLASS-156-285			US-PATENT-CLASS-356-180	
		US-PATENT-3,810,829			NASA-CASE-MFS-21846-1	US-PATENT-CLASS-156-285			US-PATENT-CLASS-356-246	
N74-23066*	c 34	NASA-CASE-LAR-10089-1			US-PATENT-APPL-SN-359958	US-PATENT-CLASS-188-163	N74-27861*	c 34	US-PATENT-3,817,627	
		US-PATENT-APPL-SN-305638			US-PATENT-CLASS-188-163	US-PATENT-CLASS-188-171			NASA-CASE-MFS-21108-1	
		US-PATENT-CLASS-240-47			US-PATENT-CLASS-188-171	US-PATENT-CLASS-188-171			US-PATENT-APPL-SN-307728	
		US-PATENT-CLASS-353-54			US-PATENT-3,812,936	US-PATENT-CLASS-102-105			US-PATENT-CLASS-136-213	
		US-PATENT-CLASS-353-61			NASA-CASE-MFS-22133-1	US-PATENT-CLASS-106-15FP			US-PATENT-CLASS-136-230	
N74-23068*	c 46	US-PATENT-3,811,044			US-PATENT-APPL-SN-337487	US-PATENT-CLASS-252-62			US-PATENT-CLASS-136-233	
		NASA-CASE-XNP-10007-1			US-PATENT-CLASS-29-203MW	US-PATENT-CLASS-252-8.1	N74-27862*	c 33	US-PATENT-3,819,419	
		US-PATENT-APPL-SN-611414			US-PATENT-CLASS-3,815,205	US-PATENT-CLASS-260-DIG.24			NASA-CASE-KSC-10731-1	
		US-PATENT-APPL-SN-768942			US-PATENT-CLASS-11028-1	US-PATENT-CLASS-260-2.5FP			US-PATENT-APPL-SN-288847	
		US-PATENT-CLASS-299-67	N74-27035*	c 24	US-PATENT-APPL-SN-219435	US-PATENT-CLASS-260-2.5R			US-PATENT-CLASS-324-72	
N74-23069*	c 46	US-PATENT-3,806,470			US-PATENT-CLASS-156-285	US-PATENT-CLASS-260-2R			US-PATENT-CLASS-340-151	
		NASA-CASE-XNP-09755			US-PATENT-3,814,653	US-PATENT-CLASS-260-396N			US-PATENT-CLASS-340-182	
		US-PATENT-APPL-SN-611414			NASA-CASE-ARC-10304-2	US-PATENT-3,819,550			US-PATENT-CLASS-340-200	
		US-PATENT-APPL-SN-857241			US-PATENT-APPL-SN-140946	NASA-CASE-LAR-10670-2	N74-27864*	c 52	US-PATENT-CLASS-73-170R	
		US-PATENT-CLASS-125-1			US-PATENT-APPL-SN-318358	US-PATENT-APPL-SN-248761			US-PATENT-3,820,095	
		US-PATENT-CLASS-125-3			US-PATENT-CLASS-102-105	US-PATENT-APPL-SN-59892			NASA-CASE-MFS-21049-1	
		US-PATENT-CLASS-299-86			US-PATENT-CLASS-106-15FP	US-PATENT-CLASS-102-90			US-PATENT-APPL-SN-304430	
		US-PATENT-CLASS-51-283			US-PATENT-CLASS-252-62	US-PATENT-CLASS-60-214			US-PATENT-CLASS-128-2S	
N74-23070*	c 37	US-PATENT-3,612,030			US-PATENT-CLASS-252-8.1	US-PATENT-CLASS-60-215			US-PATENT-CLASS-338-114	
		NASA-CASE-MFS-20645-1			US-PATENT-CLASS-260-DIG.24	US-PATENT-CLASS-60-39.46			US-PATENT-CLASS-338-5	
		US-PATENT-APPL-SN-103091			US-PATENT-CLASS-260-2.5FP	US-PATENT-CLASS-60-39.46			US-PATENT-CLASS-73-88.5R	
		US-PATENT-CLASS-74-217R			US-PATENT-CLASS-260-2.5R	US-PATENT-3,813,875			US-PATENT-3,820,529	
		US-PATENT-3,678,771			US-PATENT-CLASS-260-2R	NASA-CASE-MFS-21680-1	N74-27865*	c 35	US-PATENT-APPL-SN-361907	
N74-23125*	c 27	NASA-CASE-LEW-10199-1			US-PATENT-CLASS-260-396N	NASA-CASE-MFS-21681-1			US-PATENT-CLASS-73-141A	
		US-PATENT-APPL-SN-651972			US-PATENT-3,819,550	US-PATENT-APPL-SN-343607			US-PATENT-3,820,388	
		US-PATENT-CLASS-117-126GR			US-PATENT-APPL-SN-248761	US-PATENT-CLASS-244-1SS			NASA-CASE-MFS-21372-1	
		US-PATENT-CLASS-117-132B			US-PATENT-APPL-SN-59892	US-PATENT-CLASS-248-16	N74-27866*	c 74	US-PATENT-APPL-SN-226477	
		US-PATENT-CLASS-117-161UN			US-PATENT-CLASS-102-90	US-PATENT-3,814,350			US-PATENT-CLASS-250-505	
		US-PATENT-CLASS-260-78TF			US-PATENT-CLASS-60-214	NASA-CASE-NPO-11743-1			US-PATENT-CLASS-250-511	
N74-25968*	c 37	US-PATENT-3,647,529			US-PATENT-CLASS-60-215	US-PATENT-APPL-SN-277904			US-PATENT-3,821,556	
		NASA-CASE-MFS-21485-1			US-PATENT-CLASS-60-39.46	US-PATENT-CLASS-102-28EB			NASA-CASE-LAR-10841-1	
		US-PATENT-APPL-SN-277436			US-PATENT-CLASS-60-39.46	US-PATENT-CLASS-102-70.2A	N74-27900*	c 31	US-PATENT-APPL-SN-307729	
		US-PATENT-CLASS-408-111			US-PATENT-3,813,875	US-PATENT-CLASS-102-70.2R			US-PATENT-CLASS-13-31	
		US-PATENT-CLASS-408-80			NASA-CASE-MFS-21680-1	US-PATENT-3,812,783			US-PATENT-CLASS-73-15R	
		US-PATENT-CLASS-90-12.5			US-PATENT-APPL-SN-343607	NASA-CASE-LEW-11286-1			US-PATENT-3,817,084	
N74-26625*	c 52	US-PATENT-3,813,183			US-PATENT-CLASS-244-1SS	US-PATENT-APPL-SN-339806	N74-27901*	c 37	NASA-CASE-ARC-10462-1	
		NASA-CASE-NPO-13065-1			US-PATENT-CLASS-248-16					
		US-PATENT-APPL-SN-269073			US-PATENT-CLASS-248-23					
		US-PATENT-CLASS-128-2.1A			US-PATENT-3,814,350					
		US-PATENT-CLASS-325-113	N74-27425*	c 28	NASA-CASE-NPO-11743-1					
		US-PATENT-CLASS-325-141			US-PATENT-APPL-SN-277904					
		US-PATENT-CLASS-340-183			US-PATENT-CLASS-102-28EB					
		US-PATENT-CLASS-340-203			US-PATENT-CLASS-102-70.2A					
		US-PATENT-CLASS-340-207R			US-PATENT-CLASS-102-70.2R					
N74-26626*	c 52	US-PATENT-3,815,109			US-PATENT-3,812,783					
		NASA-CASE-MSC-13999-1	N74-27490*	c 07	NASA-CASE-LEW-11286-1					
		US-PATENT-APPL-SN-256317			US-PATENT-APPL-SN-339806					
		US-PATENT-CLASS-128-2.05A								

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				US-PATENT-APPL-SN-403694	N75-13531*	c 54	NASA-CASE-LEW-11581-1			US-PATENT-3,859,840
				US-PATENT-CLASS-214-1CM			US-PATENT-APPL-SN-327921	N75-15992*	c 37	NASA-CASE-GSC-11577-1
				US-PATENT-CLASS-307-149			US-PATENT-CLASS-128-2.05A			US-PATENT-APPL-SN-322997
				US-PATENT-CLASS-308-174			US-PATENT-CLASS-128-2.05P			US-PATENT-CLASS-117-106A
				US-PATENT-3,849,668			US-PATENT-3,850,169			US-PATENT-CLASS-117-93.3
N75-12732*	c 74			NASA-CASE-ARC-10448-2	N75-13539*	c 60	NASA-CASE-ARC-10466-1			US-PATENT-CLASS-156-89
				US-PATENT-APPL-SN-374424			US-PATENT-APPL-SN-352382			US-PATENT-CLASS-156-99
				US-PATENT-CLASS-156-16			US-PATENT-CLASS-235-156			US-PATENT-CLASS-29-472.7
				US-PATENT-CLASS-156-18			US-PATENT-CLASS-235-197			US-PATENT-CLASS-29-473.1
				US-PATENT-CLASS-156-7			US-PATENT-CLASS-324-77B			US-PATENT-CLASS-65-43
				US-PATENT-CLASS-250-495			US-PATENT-3,851,162			US-PATENT-3,859,714
N75-12810*	c 76			US-PATENT-3,847,689	N75-13625*	c 75	NASA-CASE-MFS-22145-1	N75-16783*	c 35	NASA-CASE-ARC-10637-1
				NASA-CASE-LAR-11059-1			US-PATENT-APPL-SN-367606			US-PATENT-APPL-SN-352383
				US-PATENT-APPL-SN-367294			US-PATENT-CLASS-176-3			US-PATENT-CLASS-356-28
				US-PATENT-CLASS-73-32R			US-PATENT-CLASS-313-63			US-PATENT-3,860,342
				US-PATENT-CLASS-73-432PS			US-PATENT-CLASS-315-111	N75-18310*	c 20	NASA-CASE-LEW-11694-1
				US-PATENT-3,842,656			US-PATENT-CLASS-328-233			US-PATENT-APPL-SN-352381
N75-12930*	c 05			NASA-CASE-ARC-10456-1	N75-14834*	c 23	US-PATENT-3,854,097			US-PATENT-CLASS-29-25.18
				US-PATENT-APPL-SN-237491			US-PATENT-CLASS-13530-2			US-PATENT-CLASS-72-63
				US-PATENT-CLASS-244-75R			US-PATENT-APPL-SN-178771			US-PATENT-3,864,797
				US-PATENT-CLASS-244-83R			US-PATENT-APPL-SN-69488	N75-18477*	c 33	NASA-CASE-MFS-22129-1
				US-PATENT-CLASS-416-25			US-PATENT-CLASS-106-13			US-PATENT-APPL-SN-370255
				US-PATENT-CLASS-74-480R			US-PATENT-CLASS-106-15R			US-PATENT-CLASS-324-32
				US-PATENT-3,850,388			US-PATENT-CLASS-106-287SB			US-PATENT-CLASS-324-54
N75-12968*	c 09			NASA-CASE-MFS-22039-1			US-PATENT-CLASS-117-124F	N75-18479*	c 33	US-PATENT-3,866,114
				US-PATENT-APPL-SN-386790			US-PATENT-CLASS-117-135.5			NASA-CASE-MSC-14129-1
				US-PATENT-CLASS-108-136			US-PATENT-CLASS-252-549			US-PATENT-APPL-SN-362146
				US-PATENT-3,853,075			US-PATENT-CLASS-252-70			US-PATENT-CLASS-307-229
N75-12969*	c 09			NASA-CASE-ARC-10710-1	N75-14844*	c 25	US-PATENT-3,856,534			US-PATENT-CLASS-307-235R
				US-PATENT-APPL-SN-379019			NASA-CASE-NPO-12130-1			US-PATENT-CLASS-307-267
				US-PATENT-CLASS-73-147			US-PATENT-APPL-SN-750235			US-PATENT-CLASS-328-115
				US-PATENT-3,853,003			US-PATENT-CLASS-23-230B			US-PATENT-CLASS-328-151
N75-13007*	c 15			NASA-CASE-GSC-11182-1			US-PATENT-CLASS-23-253R			US-PATENT-CLASS-328-58
				US-PATENT-APPL-SN-393527			US-PATENT-3,856,471	N75-18573*	c 37	US-PATENT-3,869,624
				US-PATENT-CLASS-325-4	N75-14957*	c 33	NASA-CASE-MSC-14240-1			NASA-CASE-NPO-13253-1
				US-PATENT-3,851,250			US-PATENT-APPL-SN-351929			US-PATENT-APPL-SN-395687
N75-13032*	c 24			NASA-CASE-LAR-10994-1			US-PATENT-CLASS-307-205			US-PATENT-CLASS-248-358R
				US-PATENT-APPL-SN-390466			US-PATENT-CLASS-307-208			US-PATENT-3,863,881
				US-PATENT-CLASS-29-420			US-PATENT-3,857,045	N75-18574*	c 37	NASA-CASE-GSC-11079-1
				US-PATENT-CLASS-29-604	N75-15014*	c 35	NASA-CASE-LAR-11213-1			US-PATENT-APPL-SN-100637
				US-PATENT-CLASS-340-174MA			US-PATENT-APPL-SN-406715			US-PATENT-CLASS-308-10
				US-PATENT-CLASS-75-200			US-PATENT-CLASS-250-201			US-PATENT-3,865,442
				US-PATENT-3,849,877			US-PATENT-CLASS-356-4	N75-19329*	c 18	NASA-CASE-MFS-22734-1
N75-13111*	c 31			NASA-CASE-LAR-10782-2			US-PATENT-3,857,031			US-PATENT-APPL-SN-453232
				US-PATENT-APPL-SN-197689	N75-15028*	c 36	NASA-CASE-MFS-21244-1			US-PATENT-CLASS-244-162
				US-PATENT-APPL-SN-379049			US-PATENT-APPL-SN-350249			US-PATENT-3,866,863
				US-PATENT-CLASS-249-144			US-PATENT-CLASS-356-103	N75-19408*	c 26	NASA-CASE-LEW-11696-2
				US-PATENT-CLASS-249-145			US-PATENT-CLASS-356-28			US-PATENT-APPL-SN-298156
				US-PATENT-CLASS-249-59			US-PATENT-CLASS-356-5			US-PATENT-APPL-SN-436315
				US-PATENT-CLASS-425-DIG.43			US-PATENT-3,856,402			US-PATENT-CLASS-29-194
				US-PATENT-CLASS-425-405R	N75-15029*	c 36	NASA-CASE-NPO-13050-1			US-PATENT-CLASS-29-196.2
				US-PATENT-CLASS-425-438			US-PATENT-APPL-SN-317567			US-PATENT-CLASS-29-196.6
				US-PATENT-CLASS-425-468			US-PATENT-CLASS-117-95			US-PATENT-CLASS-29-197
				US-PATENT-3,850,567			US-PATENT-CLASS-117-97			US-PATENT-3,869,779
N75-13139*	c 33			NASA-CASE-MFS-22073-1			US-PATENT-CLASS-330-4	N75-19515*	c 33	NASA-CASE-MSC-14131-1
				US-PATENT-APPL-SN-409991			US-PATENT-CLASS-332-7.5			US-PATENT-APPL-SN-373588
				US-PATENT-CLASS-318-608			US-PATENT-3,859,119			US-PATENT-CLASS-307-260
				US-PATENT-CLASS-318-640	N75-15050*	c 37	NASA-CASE-NPO-13201-1			US-PATENT-CLASS-324-78J
				US-PATENT-CLASS-318-649			US-PATENT-APPL-SN-372149			US-PATENT-CLASS-328-59
				US-PATENT-CLASS-318-675			US-PATENT-CLASS-137-505.38			US-PATENT-CLASS-331-78
				US-PATENT-3,851,238			US-PATENT-CLASS-137-505.42			US-PATENT-3,866,128
N75-13213*	c 35			NASA-CASE-LEW-11632-2			US-PATENT-CLASS-74-424.8VA	N75-19516*	c 33	NASA-CASE-GSC-11760-1
				US-PATENT-APPL-SN-254173			US-PATENT-3,856,042			NASA-CASE-GSC-11783-1
				US-PATENT-APPL-SN-327969	N75-15270*	c 52	NASA-CASE-NPO-12119-1			US-PATENT-APPL-SN-395688
				US-PATENT-CLASS-29-571			US-PATENT-APPL-SN-847815			US-PATENT-CLASS-343-761
				US-PATENT-CLASS-29-592			US-PATENT-CLASS-424-180			US-PATENT-CLASS-343-781
				US-PATENT-CLASS-307-309			US-PATENT-3,849,554			US-PATENT-CLASS-343-837
				US-PATENT-CLASS-317-235H	N75-15662*	c 09	NASA-CASE-LAR-10276-1			US-PATENT-3,866,233
				US-PATENT-CLASS-330-6			US-PATENT-APPL-SN-29979	N75-19517*	c 33	NASA-CASE-GSC-11582-1
				US-PATENT-3,849,875			US-PATENT-CLASS-272-1R			US-PATENT-APPL-SN-397477
N75-13261*	c 37			NASA-CASE-LEW-11696-1			US-PATENT-CLASS-272-57A			US-PATENT-CLASS-178-15
				US-PATENT-APPL-SN-298156			US-PATENT-CLASS-35-12C			US-PATENT-CLASS-315-18
				US-PATENT-CLASS-29-196.6			US-PATENT-3,859,736			US-PATENT-CLASS-340-324AD
				US-PATENT-CLASS-29-197	N75-15854*	c 32	NASA-CASE-NPO-13292-1			US-PATENT-3,866,210
				US-PATENT-CLASS-29-460			US-PATENT-APPL-SN-416135	N75-19518*	c 33	NASA-CASE-ARC-10348-1
				US-PATENT-CLASS-29-494			US-PATENT-CLASS-343-100ST			US-PATENT-APPL-SN-140439
				US-PATENT-CLASS-29-497.5			US-PATENT-CLASS-343-17.5			US-PATENT-CLASS-330-69
				US-PATENT-CLASS-29-504			US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-330-86
				US-PATENT-3,849,865			US-PATENT-CLASS-343-9			US-PATENT-3,872,395
N75-13265*	c 37			NASA-CASE-KSC-10723-1			US-PATENT-3,860,921	N75-19519*	c 33	NASA-CASE-NPO-13125-1
				US-PATENT-APPL-SN-347952	N75-15874*	c 33	NASA-CASE-MFS-22088-1			US-PATENT-APPL-SN-319150
				US-PATENT-CLASS-338-162			US-PATENT-APPL-SN-426155			US-PATENT-CLASS-235-92DM
				US-PATENT-CLASS-338-75			US-PATENT-CLASS-318-227			US-PATENT-CLASS-235-92LG
				US-PATENT-CLASS-338-97			US-PATENT-CLASS-318-230			US-PATENT-CLASS-235-92R
				US-PATENT-3,854,113			US-PATENT-CLASS-318-231			US-PATENT-CLASS-235-92T
N75-13266*	c 37			NASA-CASE-NPO-13281-1			US-PATENT-3,860,858			US-PATENT-CLASS-235-92VA
				US-PATENT-APPL-SN-412079	N75-15931*	c 35	NASA-CASE-MFS-22161-1			US-PATENT-3,866,022
				US-PATENT-CLASS-74-436			US-PATENT-APPL-SN-337816	N75-19520*	c 33	NASA-CASE-ARC-10364-3
				US-PATENT-CLASS-74-820			US-PATENT-CLASS-200-83N			US-PATENT-APPL-SN-209618
				US-PATENT-3,855,873			US-PATENT-CLASS-73-40			US-PATENT-APPL-SN-462844
N75-13502*	c 51			NASA-CASE-LAR-11074-1			US-PATENT-CLASS-73-49.2			US-PATENT-CLASS-307-321
				US-PATENT-APPL-SN-326364			US-PATENT-3,859,845			US-PATENT-CLASS-324-DIG.1
				US-PATENT-CLASS-115-103.5	N75-15932*	c 35	NASA-CASE-MFS-21045-1			US-PATENT-CLASS-329-166
				US-PATENT-CLASS-195-120			US-PATENT-APPL-SN-411572			US-PATENT-CLASS-329-204
				US-PATENT-CLASS-195-127			US-PATENT-CLASS-73-1R			US-PATENT-CLASS-332-47
				US-PATENT-3,850,754			US-PATENT-CLASS-73-379			US-PATENT-3,869,676

N75-19521*	c 33	NASA-CASE-KSC-10736-1 US-PATENT-APPL-SN-348787 US-PATENT-CLASS-324-102 US-PATENT-CLASS-324-113 US-PATENT-3,869,667	N75-20139*	c 77	US-PATENT-3,869,151 NASA-CASE-MSC-14143-1 US-PATENT-APPL-SN-393526 US-PATENT-CLASS-165-110 US-PATENT-CLASS-165-111 US-PATENT-CLASS-62-285 US-PATENT-CLASS-62-288 US-PATENT-CLASS-62-289 US-PATENT-CLASS-62-290 US-PATENT-CLASS-62-317 US-PATENT-CLASS-62-93 US-PATENT-3,868,830	N75-25040*	c 33	NASA-CASE-GSC-11623-1 US-PATENT-APPL-SN-389929 US-PATENT-CLASS-331-1A US-PATENT-CLASS-331-18 US-PATENT-CLASS-331-25 US-PATENT-3,883,817
N75-19522*	c 33	NASA-CASE-GSC-11844-1 US-PATENT-APPL-SN-452761 US-PATENT-CLASS-307-227 US-PATENT-CLASS-321-15 US-PATENT-CLASS-324-32 US-PATENT-3,869,659	N75-20140*	c 77	NASA-CASE-GSC-11752-1 US-PATENT-APPL-SN-446569 US-PATENT-CLASS-219-497 US-PATENT-CLASS-219-501 US-PATENT-CLASS-219-505 US-PATENT-3,869,597	N75-25041*	c 33	NASA-CASE-ARC-10364-2 US-PATENT-APPL-SN-209618 US-PATENT-APPL-SN-433968 US-PATENT-CLASS-307-321 US-PATENT-CLASS-324-DIG.1 US-PATENT-CLASS-329-166 US-PATENT-CLASS-329-204 US-PATENT-3,883,812
N75-19524*	c 33	NASA-CASE-NPO-13374-1 US-PATENT-APPL-SN-449118 US-PATENT-CLASS-318-137 US-PATENT-CLASS-318-167 US-PATENT-CLASS-318-176 US-PATENT-CLASS-318-183 US-PATENT-3,867,677	N75-21485*	c 32	NASA-CASE-MSC-12607-1 US-PATENT-APPL-SN-407323 US-PATENT-CLASS-178-DIG.12 US-PATENT-CLASS-358-36 US-PATENT-3,875,584	N75-25122*	c 35	NASA-CASE-NPO-10764-2 US-PATENT-APPL-SN-273519 US-PATENT-APPL-SN-836280 US-PATENT-CLASS-116-114.5 US-PATENT-CLASS-117-72 US-PATENT-CLASS-73-256 US-PATENT-3,874,240
N75-19611*	c 35	NASA-CASE-LAR-11071-1 US-PATENT-APPL-SN-334349 US-PATENT-CLASS-417-138 US-PATENT-CLASS-417-36 US-PATENT-CLASS-417-395 US-PATENT-CLASS-73-221 US-PATENT-3,864,060	N75-21486*	c 32	NASA-CASE-MSC-14558-1 US-PATENT-APPL-SN-428994 US-PATENT-CLASS-178-58A US-PATENT-CLASS-178-79 US-PATENT-3,875,332	N75-25123*	c 35	NASA-CASE-NPO-13214-1 NASA-CASE-NPO-13215-1 US-PATENT-APPL-SN-394149 US-PATENT-CLASS-178-DIG.29 US-PATENT-CLASS-178-7.2 US-PATENT-3,883,689
N75-19612*	c 35	NASA-CASE-LAR-11237-1 US-PATENT-APPL-SN-402868 US-PATENT-CLASS-340-242 US-PATENT-CLASS-73-46 US-PATENT-CLASS-73-49.2 US-PATENT-3,864,960	N75-21582*	c 35	NASA-CASE-MFS-22671-1 US-PATENT-APPL-SN-419831 US-PATENT-CLASS-178-69A US-PATENT-CLASS-235-181 US-PATENT-CLASS-324-57PS US-PATENT-CLASS-324-77H US-PATENT-CLASS-325-67 US-PATENT-3,875,500	N75-25124*	c 35	NASA-CASE-MFS-21704-1 US-PATENT-APPL-SN-386793 US-PATENT-CLASS-350-3.5 US-PATENT-3,883,215
N75-19613*	c 35	NASA-CASE-LAR-11207-1 US-PATENT-APPL-SN-385013 US-PATENT-CLASS-178-DIG.20 US-PATENT-CLASS-250-332 US-PATENT-CLASS-356-186 US-PATENT-CLASS-356-189 US-PATENT-CLASS-356-83 US-PATENT-CLASS-356-96 US-PATENT-3,869,212	N75-21631*	c 37	NASA-CASE-LEW-11274-1 US-PATENT-APPL-SN-380630 US-PATENT-CLASS-277-134 US-PATENT-CLASS-277-27 US-PATENT-CLASS-277-40 US-PATENT-3,874,677	N75-25185*	c 37	NASA-CASE-NPO-13360-1 US-PATENT-APPL-SN-401920 US-PATENT-CLASS-228-1 US-PATENT-CLASS-251-333 US-PATENT-3,874,635
N75-19614*	c 35	NASA-CASE-LAR-11173-1 US-PATENT-APPL-SN-354408 US-PATENT-CLASS-332-2 US-PATENT-CLASS-73-557 US-PATENT-3,868,856	N75-21631*	c 37	NASA-CASE-LEW-11274-1 US-PATENT-APPL-SN-380630 US-PATENT-CLASS-277-134 US-PATENT-CLASS-277-27 US-PATENT-CLASS-277-40 US-PATENT-3,874,677	N75-25186*	c 37	NASA-CASE-MFS-22649-1 US-PATENT-APPL-SN-398901 US-PATENT-CLASS-408-112 US-PATENT-CLASS-408-186 US-PATENT-CLASS-408-193 US-PATENT-CLASS-408-195 US-PATENT-3,877,833
N75-19615*	c 35	NASA-CASE-MFS-22189-1 US-PATENT-APPL-SN-405342 US-PATENT-CLASS-33-148D US-PATENT-CLASS-73-143 US-PATENT-3,864,953	N75-23910*	c 35	NASA-CASE-NPO-13327-1 US-PATENT-APPL-SN-429437 US-PATENT-CLASS-247-171 US-PATENT-CLASS-250-203 US-PATENT-CLASS-250-211R US-PATENT-3,875,404	N75-25503*	c 51	NASA-CASE-ARC-10722-1 US-PATENT-APPL-SN-428995 US-PATENT-CLASS-47-1.2 US-PATENT-CLASS-47-39 US-PATENT-CLASS-47-58 US-PATENT-3,882,634
N75-19616*	c 35	NASA-CASE-MFS-20932-1 US-PATENT-APPL-SN-374441 US-PATENT-CLASS-250-505 US-PATENT-CLASS-250-508 US-PATENT-CLASS-250-510 US-PATENT-3,869,615	N75-24716*	c 05	NASA-CASE-MSC-14339-1 US-PATENT-APPL-SN-347953 US-PATENT-CLASS-128-2.06E US-PATENT-CLASS-128-DIG.4 US-PATENT-CLASS-128-2.06B US-PATENT-3,882,846	N75-25706*	c 74	NASA-CASE-HQN-10542-1 US-PATENT-APPL-SN-163151 US-PATENT-CLASS-178-DIG.25 US-PATENT-CLASS-250-566 US-PATENT-CLASS-350-311 US-PATENT-3,883,436
N75-19652*	c 36	NASA-CASE-NPO-13131-1 US-PATENT-APPL-SN-390468 US-PATENT-CLASS-178-7.1 US-PATENT-CLASS-250-211R US-PATENT-CLASS-250-578 US-PATENT-CLASS-315-169R US-PATENT-CLASS-340-173LS US-PATENT-3,865,975	N75-24736*	c 07	NASA-CASE-ARC-10754-1 US-PATENT-APPL-SN-398886 US-PATENT-CLASS-137-15.1 US-PATENT-CLASS-244-53B US-PATENT-3,883,095	N75-25730*	c 76	NASA-CASE-GSC-11425-2 US-PATENT-APPL-SN-206266 US-PATENT-APPL-SN-394206 US-PATENT-CLASS-357-23 US-PATENT-CLASS-357-29 US-PATENT-CLASS-357-42 US-PATENT-CLASS-357-52 US-PATENT-CLASS-357-54 US-PATENT-CLASS-357-91 US-PATENT-3,882,530
N75-19653*	c 36	NASA-CASE-HQN-10844-1 US-PATENT-APPL-SN-412080 US-PATENT-CLASS-356-106LR US-PATENT-3,869,210	N75-24758*	c 09	NASA-CASE-GSC-11127-1 US-PATENT-APPL-SN-401466 US-PATENT-CLASS-318-314 US-PATENT-CLASS-318-318 US-PATENT-CLASS-318-341 US-PATENT-3,883,785	N75-25914*	c 05	NASA-CASE-LAR-11252-1 US-PATENT-APPL-SN-367268 US-PATENT-CLASS-D12-76 US-PATENT-CLASS-244-13 US-PATENT-CLASS-244-15 US-PATENT-CLASS-244-42DA US-PATENT-CLASS-244-55 US-PATENT-3,884,432
N75-19654*	c 36	NASA-CASE-GSC-11746-1 US-PATENT-APPL-SN-393528 US-PATENT-CLASS-331-94.5M US-PATENT-3,869,680	N75-24774*	c 12	NASA-CASE-NPO-13263-1 US-PATENT-APPL-SN-393523 US-PATENT-CLASS-73-505 US-PATENT-3,882,732	N75-25915*	c 05	NASA-CASE-ARC-10519-2 US-PATENT-APPL-SN-452767 US-PATENT-CLASS-280-150SB US-PATENT-CLASS-297-385 US-PATENT-CLASS-297-388 US-PATENT-CLASS-297-389 US-PATENT-3,887,233
N75-19655*	c 36	NASA-CASE-LAR-11341-1 US-PATENT-APPL-SN-367293 US-PATENT-CLASS-330-4.3 US-PATENT-CLASS-331-94.5P US-PATENT-3,868,591	N75-24794*	c 14	NASA-CASE-MFS-21488-1 US-PATENT-APPL-SN-359156 US-PATENT-CLASS-73-143 US-PATENT-3,882,719	N75-26043*	c 25	NASA-CASE-LAR-11144-1 US-PATENT-APPL-SN-426405 US-PATENT-CLASS-117-106A US-PATENT-CLASS-117-107.2 US-PATENT-CLASS-117-201 US-PATENT-CLASS-118-48 US-PATENT-CLASS-118-49.1 US-PATENT-CLASS-148-175 US-PATENT-CLASS-252-62.3GA US-PATENT-3,888,705
N75-19683*	c 37	NASA-CASE-MSC-19095-1 US-PATENT-APPL-SN-415486 US-PATENT-CLASS-219-137 US-PATENT-3,864,542	N75-24837*	c 20	NASA-CASE-NPO-13303-1 US-PATENT-APPL-SN-457295 US-PATENT-CLASS-310-10 US-PATENT-CLASS-310-4 US-PATENT-CLASS-310-40 US-PATENT-CLASS-310-52 US-PATENT-CLASS-335-216 US-PATENT-CLASS-60-516 US-PATENT-CLASS-60-530 US-PATENT-CLASS-62-3 US-PATENT-CLASS-62-467 US-PATENT-3,875,435	N75-26194*	c 32	NASA-CASE-NPO-13217-1 US-PATENT-APPL-SN-362145 US-PATENT-CLASS-343-105R US-PATENT-CLASS-343-112D US-PATENT-3,889,264
N75-19684*	c 37	NASA-CASE-NPO-13345-1 US-PATENT-APPL-SN-462705 US-PATENT-CLASS-204-192 US-PATENT-CLASS-204-298 US-PATENT-3,864,239	N75-24981*	c 32	NASA-CASE-GSC-11743-1 US-PATENT-APPL-SN-370271 US-PATENT-CLASS-178-66R US-PATENT-CLASS-325-30 US-PATENT-CLASS-325-60 US-PATENT-3,878,464	N75-26195*	c 32	NASA-CASE-NPO-13321-1
N75-19685*	c 37	NASA-CASE-MFS-21606-1 US-PATENT-APPL-SN-356555 US-PATENT-CLASS-292-DIG.14 US-PATENT-CLASS-292-108 US-PATENT-CLASS-292-122 US-PATENT-3,869,160	N75-24982*	c 32	NASA-CASE-NPO-13140-1 US-PATENT-APPL-SN-374422 US-PATENT-CLASS-343-100PE US-PATENT-CLASS-343-5GC US-PATENT-3,883,872			
N75-19686*	c 37	NASA-CASE-MFS-19193-1 US-PATENT-APPL-SN-461477 US-PATENT-CLASS-285-114 US-PATENT-CLASS-285-226						

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		US-PATENT-CLASS-250-496			US-PATENT-CLASS-73-141A			US-PATENT-CLASS-235-92SH
		US-PATENT-3,899,680			US-PATENT-3,906,788			US-PATENT-CLASS-307-221R
N75-31329*	c 33	NASA-CASE-NPO-13423-1	N75-33395*	c 37	NASA-CASE-MFS-22283-1			US-PATENT-CLASS-328-37
		US-PATENT-APPL-SN-470429			US-PATENT-APPL-SN-387095	N76-14429*	c 35	US-PATENT-3,911,330
		US-PATENT-CLASS-128-2S			US-PATENT-CLASS-279-1B			NASA-CASE-LAR-11552-1
		US-PATENT-CLASS-338-2			US-PATENT-CLASS-279-107			US-PATENT-APPL-SN-518685
		US-PATENT-CLASS-73-88.5			US-PATENT-CLASS-279-89			US-PATENT-CLASS-73-182
		US-PATENT-3,905,356			US-PATENT-CLASS-29-26A			US-PATENT-CLASS-73-212
N75-31330*	c 33	NASA-CASE-NPO-13426-1			US-PATENT-CLASS-294-116	N76-14430*	c 35	US-PATENT-3,914,997
		US-PATENT-APPL-SN-45053			US-PATENT-CLASS-294-86.33			NASA-CASE-NPO-13170-1
		US-PATENT-CLASS-307-225R			US-PATENT-3,907,312			US-PATENT-APPL-SN-382261
		US-PATENT-CLASS-328-41	N75-33640*	c 52	NASA-CASE-LEW-12051-1			US-PATENT-CLASS-338-6
		US-PATENT-3,906,374			US-PATENT-APPL-SN-397478			US-PATENT-CLASS-73-88.5R
N75-31331*	c 33	NASA-CASE-NPO-11156-2			US-PATENT-CLASS-128-230			US-PATENT-3,914,991
		US-PATENT-APPL-SN-174684			US-PATENT-CLASS-128-305	N76-14431*	c 35	NASA-CASE-LEW-11915-1
		US-PATENT-CLASS-307-238			US-PATENT-3,906,954			US-PATENT-APPL-SN-474744
		US-PATENT-CLASS-340-173CA	N76-14158*	c 15	NASA-CASE-LAR-11051-1			US-PATENT-CLASS-137-15.2
		US-PATENT-CLASS-357-24			US-PATENT-APPL-SN-384773			US-PATENT-CLASS-235-151.34
		US-PATENT-CLASS-357-7			US-PATENT-CLASS-244-165			US-PATENT-CLASS-60-39.29
		US-PATENT-3,906,296			US-PATENT-CLASS-244-3.21			US-PATENT-3,911,260
N75-31332*	c 33	NASA-CASE-NPO-13348-1			US-PATENT-CLASS-74-5.7	N76-14447*	c 36	NASA-CASE-ARC-10642-1
		US-PATENT-APPL-SN-452770			US-PATENT-3,915,416			US-PATENT-APPL-SN-446562
		US-PATENT-CLASS-250-238	N76-14186*	c 18	NASA-CASE-MSC-12559-1			US-PATENT-CLASS-356-106R
		US-PATENT-CLASS-250-370			US-PATENT-APPL-SN-370582			US-PATENT-CLASS-356-28
		US-PATENT-CLASS-357-5			US-PATENT-CLASS-178-DIG.20			US-PATENT-3,915,572
		US-PATENT-3,906,231			US-PATENT-CLASS-244-161	N76-14460*	c 37	NASA-CASE-MFS-19194-1
N75-31426*	c 36	NASA-CASE-ARC-10370-1			US-PATENT-CLASS-33-286			US-PATENT-APPL-SN-483850
		US-PATENT-APPL-SN-137391			US-PATENT-CLASS-35-12			US-PATENT-CLASS-285-226
		US-PATENT-CLASS-331-94.5G			US-PATENT-CLASS-356-153			US-PATENT-CLASS-285-265
		US-PATENT-CLASS-331-94.5P			US-PATENT-3,910,533			US-PATENT-3,915,482
N75-31427*	c 36	US-PATENT-3,906,397	N76-14190*	c 20	NASA-CASE-LEW-11593-1	N76-14461*	c 37	NASA-CASE-LEW-11694-2
		NASA-CASE-NPO-13175-1			US-PATENT-APPL-SN-363691			US-PATENT-APPL-SN-352381
		US-PATENT-APPL-SN-374423			US-PATENT-CLASS-60-39.23			US-PATENT-APPL-SN-462903
		US-PATENT-CLASS-331-94.5C			US-PATENT-CLASS-60-39.29			US-PATENT-CLASS-29-421
		US-PATENT-CLASS-350-161			US-PATENT-CLASS-60-39.74R			US-PATENT-CLASS-72-363
		US-PATENT-CLASS-350-96WG			US-PATENT-3,910,035			US-PATENT-CLASS-72-54
		US-PATENT-3,906,393	N76-14191*	c 20	NASA-CASE-LEW-11118-2			US-PATENT-CLASS-72-63
N75-31446*	c 37	NASA-CASE-LEW-11925-1			US-PATENT-APPL-SN-436316	N76-14463*	c 37	US-PATENT-3,914,969
		US-PATENT-APPL-SN-450505			US-PATENT-CLASS-239-127.3			NASA-CASE-MFS-22323-1
		US-PATENT-CLASS-308-191			US-PATENT-CLASS-60-265			US-PATENT-APPL-SN-474745
		US-PATENT-CLASS-308-195			US-PATENT-CLASS-60-267			US-PATENT-CLASS-137-515.3
		US-PATENT-CLASS-308-201			US-PATENT-3,910,039			US-PATENT-CLASS-137-550
		US-PATENT-3,905,660	N76-14203*	c 24	NASA-CASE-NPO-12122-1			US-PATENT-CLASS-210-429
N75-32441*	c 36	NASA-CASE-NPO-13449-1			US-PATENT-APPL-SN-401921			US-PATENT-CLASS-251-149.6
		US-PATENT-APPL-SN-420813			US-PATENT-CLASS-149-36			US-PATENT-3,910,307
		US-PATENT-CLASS-310-11			US-PATENT-CLASS-423-407	N76-14595*	c 44	NASA-CASE-MFS-22562-1
		US-PATENT-CLASS-330-4.3			US-PATENT-3,919,014			US-PATENT-APPL-SN-458484
		US-PATENT-CLASS-331-94.5PE	N76-14204*	c 24	NASA-CASE-MSC-12568-1			US-PATENT-CLASS-126-270
		US-PATENT-CLASS-331-94.5G			US-PATENT-APPL-SN-325784			US-PATENT-CLASS-136-206
		US-PATENT-3,906,398			US-PATENT-CLASS-136-146			US-PATENT-CLASS-204-32R
N75-32465* #	c 37	NASA-CASE-ARC-10907-1			US-PATENT-CLASS-136-148			US-PATENT-CLASS-204-33
		US-PATENT-APPL-SN-619986			US-PATENT-CLASS-162-102			US-PATENT-CLASS-204-38A
N75-32581*	c 44	NASA-CASE-MFS-21628-1			US-PATENT-CLASS-162-153			US-PATENT-CLASS-204-40
		US-PATENT-APPL-SN-421702			US-PATENT-CLASS-162-222			US-PATENT-CLASS-204-42
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-162-228			US-PATENT-CLASS-204-49
		US-PATENT-CLASS-165-105			US-PATENT-3,910,814			US-PATENT-CLASS-29-194
		US-PATENT-CLASS-244-173	N76-14264*	c 27	NASA-CASE-MSC-14182-1			US-PATENT-CLASS-29-195
		US-PATENT-CLASS-60-641			US-PATENT-APPL-SN-419748			US-PATENT-CLASS-29-197
		US-PATENT-CLASS-60-659			US-PATENT-CLASS-403-179			US-PATENT-3,920,413
		US-PATENT-3,903,699			US-PATENT-CLASS-403-28	N76-14600*	c 44	NASA-CASE-LEW-11065-2
N75-33181*	c 24	NASA-CASE-LEW-11484-1			US-PATENT-CLASS-428-109			US-PATENT-APPL-SN-154930
		US-PATENT-APPL-SN-356554			US-PATENT-CLASS-428-212			US-PATENT-APPL-SN-371322
		US-PATENT-CLASS-117-105.2			US-PATENT-CLASS-428-214			US-PATENT-CLASS-136-89
		US-PATENT-CLASS-117-38			US-PATENT-CLASS-428-416			US-PATENT-CLASS-29-572
		US-PATENT-CLASS-117-46FS			US-PATENT-CLASS-428-447	N76-14601*	c 44	US-PATENT-3,912,540
		US-PATENT-CLASS-117-8.5			US-PATENT-CLASS-428-77			NASA-CASE-MFS-22749-1
		US-PATENT-CLASS-29-DIG.24			US-PATENT-3,920,339			US-PATENT-APPL-SN-483857
		US-PATENT-CLASS-29-DIG.39	N76-14284*	c 31	NASA-CASE-NPO-13435-1			US-PATENT-CLASS-136-114
		US-PATENT-CLASS-29-527.2			US-PATENT-APPL-SN-478803			US-PATENT-CLASS-136-162
		US-PATENT-CLASS-72-46			US-PATENT-CLASS-62-129			US-PATENT-CLASS-136-182
		US-PATENT-3,906,769			US-PATENT-CLASS-62-49			US-PATENT-CLASS-136-90
N75-33342*	c 34	NASA-CASE-MSC-14273-1			US-PATENT-CLASS-73-295			US-PATENT-3,912,541
		US-PATENT-APPL-SN-385522			US-PATENT-3,914,950	N76-14602*	c 44	NASA-CASE-NPO-13497-1
		US-PATENT-CLASS-210-234			US-PATENT-CLASS-3,914,950			US-PATENT-APPL-SN-526448
		US-PATENT-CLASS-210-259	N76-14321*	c 32	NASA-CASE-LAR-11021-1			US-PATENT-CLASS-126-271
		US-PATENT-CLASS-210-304			US-PATENT-APPL-SN-453115			US-PATENT-CLASS-237-1A
		US-PATENT-CLASS-210-333			US-PATENT-CLASS-325-304			US-PATENT-CLASS-350-211
		US-PATENT-CLASS-210-340			US-PATENT-CLASS-325-306			US-PATENT-3,915,148
		US-PATENT-CLASS-210-411			US-PATENT-CLASS-325-372	N76-14757*	c 52	NASA-CASE-MSC-14180-1
		US-PATENT-CLASS-210-425			US-PATENT-CLASS-328-145			US-PATENT-APPL-SN-354406
		US-PATENT-CLASS-210-512			US-PATENT-CLASS-343-176			US-PATENT-CLASS-128-2.06R
		US-PATENT-CLASS-210-82			US-PATENT-3,916,316			US-PATENT-CLASS-128-2.1A
		US-PATENT-3,907,686	N76-14371*	c 33	NASA-CASE-KSC-10834-1			US-PATENT-CLASS-128-2H
N75-33367*	c 35	NASA-CASE-LAR-10629-1			US-PATENT-APPL-SN-536535			US-PATENT-3,910,257
		US-PATENT-APPL-SN-402867			US-PATENT-CLASS-178-69.5R	N76-14804*	c 54	NASA-CASE-MSC-14640-1
		US-PATENT-CLASS-116-114AH			US-PATENT-CLASS-178-88			US-PATENT-APPL-SN-526449
		US-PATENT-CLASS-73-12			US-PATENT-CLASS-328-190			US-PATENT-CLASS-128-2F
		US-PATENT-CLASS-73-170R			US-PATENT-CLASS-328-63			US-PATENT-CLASS-73-421R
		US-PATENT-CLASS-73-432PS	N76-14372*	c 33	US-PATENT-3,916,084			US-PATENT-3,915,012
		US-PATENT-3,896,758			NASA-CASE-LAR-10970-1	N76-14818*	c 60	NASA-CASE-NPO-13422-1
N75-33368*	c 35	NASA-CASE-LAR-11326-1			US-PATENT-APPL-SN-527790			US-PATENT-APPL-SN-521601
		US-PATENT-APPL-SN-491416			US-PATENT-CLASS-343-770			US-PATENT-CLASS-340-147C
		US-PATENT-CLASS-195-103.5R			US-PATENT-CLASS-343-797			US-PATENT-CLASS-340-147R
		US-PATENT-3,907,646			US-PATENT-CLASS-343-846			US-PATENT-3,916,380
N75-33369*	c 35	NASA-CASE-LAR-11263-1	N76-14373*	c 33	US-PATENT-3,919,710	N76-14931*	c 75	NASA-CASE-MFS-22287-1
		US-PATENT-APPL-SN-472775			NASA-CASE-NPO-13451-1			US-PATENT-APPL-SN-438147
					US-PATENT-APPL-SN-501012			

				US-PATENT-CLASS-315-111.6				US-PATENT-CLASS-308-73					US-PATENT-3,931,532
				US-PATENT-CLASS-73-12				US-PATENT-CLASS-308-9					NASA-CASE-MSC-12561-1
				US-PATENT-CLASS-89-8				US-PATENT-3,926,482		N76-17185*	c 18		US-PATENT-APPL-SN-448323
				US-PATENT-3,916,761				US-PATENT-3,926,482					US-PATENT-CLASS-244-162
N76-15189*	c 12			NASA-CASE-MSC-12611-1		N76-15860*	c 72	NASA-CASE-LEW-11866-1					US-PATENT-CLASS-244-172
				US-PATENT-APPL-SN-446560				US-PATENT-APPL-SN-500980					US-PATENT-3,929,306
				US-PATENT-CLASS-350-288				US-PATENT-CLASS-250-499		N76-17317*	c 34		NASA-CASE-LAR-10799-2
				US-PATENT-CLASS-350-293				US-PATENT-CLASS-250-500					US-PATENT-APPL-SN-301419
				US-PATENT-CLASS-427-162		N76-16014*	c 02	US-PATENT-3,924,137					US-PATENT-APPL-SN-419319
				US-PATENT-CLASS-427-250				NASA-CASE-LAR-11575-1					US-PATENT-CLASS-165-105
				US-PATENT-3,927,227				US-PATENT-APPL-SN-527727					US-PATENT-CLASS-165-106
N76-15268*	c 23			NASA-CASE-MFS-22355-1				US-PATENT-CLASS-244-139					US-PATENT-CLASS-237-60
				US-PATENT-APPL-SN-487852		N76-16228*	c 27	US-PATENT-3,930,628					US-PATENT-CLASS-244-117A
				US-PATENT-CLASS-260-32.6N				NASA-CASE-NPO-12061-1					US-PATENT-CLASS-244-135R
				US-PATENT-CLASS-260-32.8N				US-PATENT-APPL-SN-45549					US-PATENT-CLASS-417-209
				US-PATENT-CLASS-260-346.3				US-PATENT-CLASS-260-879					US-PATENT-CLASS-3,929,305
				US-PATENT-CLASS-260-47CP				US-PATENT-CLASS-260-900		N76-17656*	c 45		NASA-CASE-LAR-11675-1
				US-PATENT-CLASS-260-571				US-PATENT-CLASS-260-92.1					US-PATENT-APPL-SN-557448
				US-PATENT-CLASS-260-78TF		N76-16229*	c 27	US-PATENT-3,931,132					US-PATENT-CLASS-178-DIG.1
				US-PATENT-3,925,312				NASA-CASE-LEW-11179-1					US-PATENT-CLASS-178-DIG.8
N76-15310*	c 27			NASA-CASE-ARC-10714-1				US-PATENT-APPL-SN-357312					US-PATENT-CLASS-178-6.8
				US-PATENT-APPL-SN-398885				US-PATENT-CLASS-29-195A					US-PATENT-CLASS-250-373
				US-PATENT-CLASS-260-2.5AK				US-PATENT-CLASS-427-203					US-PATENT-CLASS-340-237S
				US-PATENT-CLASS-427-196				US-PATENT-CLASS-427-204					US-PATENT-CLASS-356-207
				US-PATENT-CLASS-427-426				US-PATENT-CLASS-427-205					US-PATENT-3,931,462
				US-PATENT-CLASS-428-303				US-PATENT-CLASS-427-270		N76-17951*	c 75		NASA-CASE-MFS-22145-2
				US-PATENT-3,916,060				US-PATENT-CLASS-427-275					US-PATENT-APPL-SN-367606
N76-15311*	c 27			NASA-CASE-NPO-13120-1				US-PATENT-CLASS-427-287					US-PATENT-APPL-SN-500982
				US-PATENT-APPL-SN-348422				US-PATENT-CLASS-428-450					US-PATENT-CLASS-124-1
				US-PATENT-CLASS-29-182.5				US-PATENT-CLASS-428-457					US-PATENT-CLASS-124-11R
				US-PATENT-3,926,567				US-PATENT-CLASS-428-469					US-PATENT-CLASS-89-8
N76-15329*	c 32			NASA-CASE-GSC-11968-1				US-PATENT-CLASS-428-539					US-PATENT-3,929,119
				US-PATENT-APPL-SN-512825		N76-16230*	c 27	US-PATENT-3,931,447					NASA-CASE-LAR-11674-1
				US-PATENT-CLASS-343-779				NASA-CASE-ARC-10813-1		N76-18117*	c 07		US-PATENT-APPL-SN-331759
				US-PATENT-CLASS-343-837				US-PATENT-APPL-SN-437556					US-PATENT-APPL-SN-488616
				US-PATENT-CLASS-343-876				US-PATENT-CLASS-264-331					US-PATENT-CLASS-181-33HC
				US-PATENT-3,927,408				US-PATENT-CLASS-428-412					US-PATENT-CLASS-239-265.11
N76-15330*	c 32			NASA-CASE-LAR-11112-1				US-PATENT-CLASS-428-413					US-PATENT-3,938,742
				US-PATENT-APPL-SN-491419				US-PATENT-CLASS-428-447					NASA-CASE-NPO-13063-1
				US-PATENT-CLASS-343-786				US-PATENT-CLASS-428-911		N76-18245*	c 25		US-PATENT-APPL-SN-227977
				US-PATENT-3,924,237				US-PATENT-CLASS-428-920					US-PATENT-CLASS-23-230M
N76-15373*	c 33			NASA-CASE-LEW-11938-1				US-PATENT-CLASS-428-921					US-PATENT-CLASS-23-230R
				US-PATENT-APPL-SN-544611		N76-16249*	c 32	US-PATENT-3,928,708					US-PATENT-CLASS-23-232C
				US-PATENT-CLASS-317-258				NASA-CASE-MSC-14557-1					US-PATENT-CLASS-23-253R
				US-PATENT-CLASS-317-261				US-PATENT-APPL-SN-428994					US-PATENT-CLASS-23-254R
				US-PATENT-3,924,164				US-PATENT-APPL-SN-464720					US-PATENT-CLASS-23-255R
N76-15431*	c 35			NASA-CASE-MSC-13802-2				US-PATENT-CLASS-178-69C					US-PATENT-CLASS-235-151.13
				US-PATENT-APPL-SN-189438				US-PATENT-CLASS-178-88					US-PATENT-CLASS-73-23.1
				US-PATENT-APPL-SN-475338				US-PATENT-CLASS-325-321					US-PATENT-3,860,393
				US-PATENT-CLASS-250-251		N76-16331*	c 33	US-PATENT-3,924,068		N76-18257*	c 26		NASA-CASE-MFS-22907-1
				US-PATENT-CLASS-250-287				NASA-CASE-MSC-14649-1					US-PATENT-APPL-SN-518546
				US-PATENT-CLASS-250-423				US-PATENT-APPL-SN-505819					US-PATENT-CLASS-324-34R
				US-PATENT-3,916,187				US-PATENT-CLASS-324-79D					US-PATENT-3,938,037
N76-15432*	c 35			NASA-CASE-LAR-11435-1				US-PATENT-CLASS-328-134					NASA-CASE-GSC-11862-1
				US-PATENT-APPL-SN-522556				US-PATENT-3,924,183		N76-18295*	c 32		US-PATENT-APPL-SN-500979
				US-PATENT-CLASS-310-8.2		N76-16332*	c 33	NASA-CASE-GSC-11849-1					US-PATENT-CLASS-343-837
				US-PATENT-CLASS-73-1R				US-PATENT-APPL-SN-470428					US-PATENT-CLASS-343-840
				US-PATENT-3,924,444				US-PATENT-CLASS-174-145					US-PATENT-CLASS-343-912
N76-15433*	c 35			NASA-CASE-GSC-11892-1				US-PATENT-CLASS-174-148					US-PATENT-CLASS-343-915
				US-PATENT-APPL-SN-502135				US-PATENT-CLASS-339-143C					US-PATENT-3,938,162
				US-PATENT-CLASS-250-336				US-PATENT-CLASS-339-198R					NASA-CASE-NPO-13385-1
				US-PATENT-CLASS-250-385				US-PATENT-CLASS-339-242		N76-18345*	c 33		US-PATENT-APPL-SN-501011
				US-PATENT-CLASS-250-489				US-PATENT-CLASS-339-275R					US-PATENT-CLASS-340-347AD
				US-PATENT-3,927,324				US-PATENT-3,931,456					US-PATENT-3,938,188
N76-15434*	c 35			NASA-CASE-LEW-11072-2		N76-16390*	c 35	NASA-CASE-NPO-13388-1					NASA-CASE-GSC-11925-1
				US-PATENT-APPL-SN-254323				US-PATENT-APPL-SN-522552		N76-18353*	c 33		US-PATENT-APPL-SN-538983
				US-PATENT-CLASS-136-211				US-PATENT-CLASS-324-43R					US-PATENT-CLASS-360-26
				US-PATENT-CLASS-136-212				US-PATENT-3,924,176					US-PATENT-CLASS-360-51
				US-PATENT-CLASS-136-225		N76-16391*	c 35	NASA-CASE-NPO-10166-2					US-PATENT-3,938,182
				US-PATENT-3,925,104				US-PATENT-APPL-SN-192803					NASA-CASE-LAR-11570-1
N76-15435*	c 35			NASA-CASE-NPO-13506-1				US-PATENT-APPL-SN-668116		N76-18364*	c 34		US-PATENT-APPL-SN-482967
				US-PATENT-APPL-SN-483851				US-PATENT-CLASS-360-10					US-PATENT-CLASS-244-23D
				US-PATENT-CLASS-343-909				US-PATENT-CLASS-360-101					US-PATENT-CLASS-60-316
				US-PATENT-3,924,239				US-PATENT-CLASS-360-35					US-PATENT-3,940,097
N76-15436*	c 35			NASA-CASE-GSC-11895-1				US-PATENT-CLASS-360-9		N76-18374*	c 34		NASA-CASE-MFS-22938-1
				US-PATENT-APPL-SN-511887		N76-16392*	c 35	US-PATENT-3,924,267					US-PATENT-APPL-SN-542754
				US-PATENT-CLASS-331-3				NASA-CASE-LAR-11458-1					US-PATENT-CLASS-250-335
				US-PATENT-CLASS-331-94				US-PATENT-APPL-SN-504225					US-PATENT-3,940,621
				US-PATENT-3,924,200				US-PATENT-CLASS-294-1R					NASA-CASE-LAR-10208-1
N76-15457*	c 37			NASA-CASE-MFS-22707-1				US-PATENT-CLASS-294-19R		N76-18400*	c 35		US-PATENT-APPL-SN-483858
				US-PATENT-APPL-SN-535410				US-PATENT-3,929,364					US-PATENT-CLASS-73-103
				US-PATENT-CLASS-214-1R		N76-16393*	c 35	NASA-CASE-GSC-11889-1					US-PATENT-CLASS-73-95
				US-PATENT-CLASS-74-384				US-PATENT-APPL-SN-502124					US-PATENT-3,938,373
				US-PATENT-CLASS-74-665B				US-PATENT-CLASS-250-281					NASA-CASE-NPO-13396-1
				US-PATENT-3,922,930				US-PATENT-CLASS-250-287		N76-18401*	c 35		US-PATENT-APPL-SN-563283
N76-15460*	c 37			NASA-CASE-MFS-22022-1				US-PATENT-CLASS-250-288					US-PATENT-CLASS-55-261
				US-PATENT-APPL-SN-405341				US-PATENT-CLASS-250-385					US-PATENT-CLASS-73-28
				US-PATENT-CLASS-214-1CM				US-PATENT-CLASS-250-423					US-PATENT-CLASS-73-421.5R
				US-PATENT-3,923,166		N76-16446* #	c 37	US-PATENT-3,931,516					US-PATENT-3,938,367
N76-15461*	c 37			NASA-CASE-LEW-11076-4				NASA-CASE-NPO-13342-1					NASA-CASE-MFS-22517-1
				US-PATENT-APPL-SN-238264		N76-16612*	c 44	US-PATENT-APPL-SN-390049		N76-18402*	c 35		US-PATENT-APPL-SN-506804
				US-PATENT-APPL-SN-346483				NASA-CASE-MFS-22002-1					US-PATENT-CLASS-350-3.5
				US-PATENT-APPL-SN-445178				US-PATENT-APPL-SN-452769					US-PATENT-3,937,555
				US-PATENT-CLASS-308-122				US-PATENT-CLASS-136-202					NASA-CASE-ARC-10322-1
				US-PATENT-CLASS-308-160				US-PATENT-CLASS-136-210		N76-18403*	c 35		US-PATENT-APPL-SN-484209
				US-PATENT-CLASS-308-72				US-PATENT-CLASS-165-105					US-PATENT-CLASS-23-254EF
								US-PATENT-CLASS-310-4					

N76-18427*	c 36	US-PATENT-3,938,956	N76-19436*	c 37	US-PATENT-CLASS-204-195R	N76-21742*	c 45	US-PATENT-CLASS-156-556
		NASA-CASE-NPO-11945-1			US-PATENT-CLASS-215-247			US-PATENT-CLASS-248-362
		US-PATENT-APPL-SN-269450			US-PATENT-CLASS-324-30B			US-PATENT-CLASS-248-363
		US-PATENT-CLASS-331-94.5			US-PATENT-3,938,035			US-PATENT-CLASS-269-21
N76-18428*	c 36	US-PATENT-CLASS-332-7.51	N76-19437*	c 37	NASA-CASE-MFS-20607-1	N76-21914*	c 60	US-PATENT-CLASS-33-1G
		US-PATENT-CLASS-350-150			US-PATENT-APPL-SN-478800			US-PATENT-CLASS-33-174B
		US-PATENT-CLASS-350-160			US-PATENT-CLASS-222-145			US-PATENT-3,945,879
		US-PATENT-CLASS-423-352			US-PATENT-CLASS-259-4AC			NASA-CASE-NPO-13474-1
N76-18454*	c 37	US-PATENT-CLASS-423-644	N76-19785*	c 52	US-PATENT-3,941,355	N76-22154*	c 02	US-PATENT-APPL-SN-521817
		US-PATENT-3,806,834			NASA-CASE-MSC-12615-1			US-PATENT-CLASS-23-254E
		NASA-CASE-NPO-13544-1			US-PATENT-APPL-SN-491417			US-PATENT-CLASS-250-574
		US-PATENT-APPL-SN-533555			US-PATENT-CLASS-244-117A			US-PATENT-CLASS-356-37
N76-18455*	c 37	US-PATENT-CLASS-331-94.5C	N76-19888*	c 66	US-PATENT-CLASS-244-163	N76-22245*	c 17	US-PATENT-3,945,801
		US-PATENT-CLASS-350-96WG			US-PATENT-CLASS-29-432			NASA-CASE-NPO-13139-1
		US-PATENT-3,939,439			US-PATENT-CLASS-29-433			US-PATENT-APPL-SN-393524
		NASA-CASE-MFS-23047-1			US-PATENT-CLASS-29-526			US-PATENT-CLASS-235-153AE
N76-18456*	c 37	US-PATENT-CLASS-332-7.51	N76-20114*	c 04	US-PATENT-CLASS-52-705	N76-22284*	c 19	US-PATENT-CLASS-340-172.5
		US-PATENT-CLASS-173-132			US-PATENT-CLASS-52-758F			US-PATENT-3,950,729
		US-PATENT-CLASS-29-81D			US-PATENT-3,936,927			NASA-CASE-LAR-10585-1
		US-PATENT-CLASS-72-453			NASA-CASE-LAR-11667-1			US-PATENT-APPL-SN-197183
N76-18457*	c 37	US-PATENT-CLASS-73-399	N76-20480*	c 37	US-PATENT-APPL-SN-583487	N76-22309*	c 24	US-PATENT-CLASS-244-35R
		US-PATENT-3,937,055			US-PATENT-CLASS-128-DIG.20			US-PATENT-CLASS-244-40R
		NASA-CASE-MSC-14435-1			US-PATENT-CLASS-128-26			US-PATENT-3,952,971
		US-PATENT-APPL-SN-450500			US-PATENT-3,937,215			NASA-CASE-GSC-11868-1
N76-18458*	c 37	US-PATENT-CLASS-228-193	N76-20958*	c 74	NASA-CASE-MFS-22631-1	N76-22323*	c 25	US-PATENT-APPL-SN-565290
		US-PATENT-CLASS-228-206			US-PATENT-APPL-SN-531572			US-PATENT-CLASS-178-69.5
		US-PATENT-CLASS-228-214			US-PATENT-CLASS-340-38P			US-PATENT-CLASS-328-155
		US-PATENT-CLASS-228-238			US-PATENT-CLASS-356-162			US-PATENT-CLASS-340-147SY
N76-18459*	c 37	US-PATENT-3,937,387	N76-20994*	c 76	US-PATENT-CLASS-356-167	N76-22376*	c 27	US-PATENT-CLASS-340-207P
		NASA-CASE-LAR-11224-1			US-PATENT-CLASS-356-71			US-PATENT-3,953,674
		US-PATENT-APPL-SN-450502			US-PATENT-3,930,735			NASA-CASE-MFS-22905-1
		US-PATENT-CLASS-134-21			NASA-CASE-MFS-21672-1			US-PATENT-APPL-SN-518545
N76-18641*	c 44	US-PATENT-CLASS-134-37	N76-21250*	c 17	US-PATENT-APPL-SN-354060	N76-22377*	c 27	US-PATENT-CLASS-188-1B
		US-PATENT-CLASS-19-205			US-PATENT-CLASS-356-123			US-PATENT-CLASS-248-22
		US-PATENT-CLASS-209-250			US-PATENT-CLASS-356-124			US-PATENT-CLASS-248-35BR
		US-PATENT-CLASS-209-300			US-PATENT-3,938,892			US-PATENT-3,952,980
N76-18642*	c 44	US-PATENT-CLASS-209-305	N76-21275*	c 20	NASA-CASE-LAR-11387-1	N76-22509*	c 35	NASA-CASE-MFS-19220-1
		US-PATENT-3,937,661			US-PATENT-APPL-SN-531647			US-PATENT-APPL-SN-571821
		NASA-CASE-NPO-13402-1			US-PATENT-CLASS-33-356			US-PATENT-CLASS-254-124
		US-PATENT-APPL-SN-387342			US-PATENT-CLASS-75-178R			US-PATENT-CLASS-254-93R
N76-18643*	c 44	US-PATENT-CLASS-123-DIG.12	N76-21365*	c 32	US-PATENT-3,943,763	N76-22657*	c 44	US-PATENT-CLASS-89-1.801
		US-PATENT-CLASS-123-119E			NASA-CASE-NPO-13059-1			US-PATENT-3,952,998
		US-PATENT-CLASS-123-120			NASA-CASE-NPO-13436-1			NASA-CASE-LEW-11930-1
		US-PATENT-CLASS-123-121			US-PATENT-APPL-SN-513690			US-PATENT-APPL-SN-513611
N76-18644*	c 44	US-PATENT-CLASS-123-89A	N76-21366*	c 32	US-PATENT-CLASS-81-57.31	N76-22657*	c 44	US-PATENT-CLASS-252-12
		US-PATENT-3,906,913			US-PATENT-CLASS-81-57.31			US-PATENT-3,953,343
		NASA-CASE-LEW-11860-1			US-PATENT-3,942,398			NASA-CASE-ARC-10760-1
		US-PATENT-APPL-SN-527728			NASA-CASE-ARC-10631-1			US-PATENT-APPL-SN-526438
N76-18645*	c 44	US-PATENT-CLASS-204-157.1H	N76-21366*	c 32	US-PATENT-APPL-SN-514546	N76-22657*	c 44	US-PATENT-CLASS-250-343
		US-PATENT-CLASS-250-527			US-PATENT-CLASS-250-343			US-PATENT-CLASS-250-343
		US-PATENT-3,939,048			US-PATENT-CLASS-250-573			US-PATENT-CLASS-250-344
		US-PATENT-CLASS-308-10			US-PATENT-3,943,368			US-PATENT-CLASS-250-432R
N76-18646*	c 44	US-PATENT-3,937,533	N76-21366*	c 32	US-PATENT-NPO-13443-1	N76-22657*	c 44	US-PATENT-3,953,734
		NASA-CASE-NPO-13237-1			US-PATENT-APPL-SN-522551			NASA-CASE-ARC-10721-1
		US-PATENT-APPL-SN-378127			US-PATENT-CLASS-324-158D			US-PATENT-APPL-SN-427775
		US-PATENT-CLASS-136-83R			US-PATENT-CLASS-324-158R			US-PATENT-CLASS-264-60
N76-18647*	c 44	US-PATENT-CLASS-136-86S	N76-21366*	c 32	US-PATENT-CLASS-324-158T	N76-22657*	c 44	US-PATENT-CLASS-264-63
		US-PATENT-3,894,887			US-PATENT-CLASS-324-60C			US-PATENT-CLASS-264-66
		NASA-CASE-NPO-13464-1			US-PATENT-3,943,442			US-PATENT-3,952,083
		US-PATENT-APPL-SN-428444			NASA-CASE-MSC-12593-1			NASA-CASE-MSC-14270-1
N76-18648*	c 44	US-PATENT-CLASS-123-3	N76-21366*	c 32	US-PATENT-APPL-SN-419747	N76-22657*	c 44	US-PATENT-APPL-SN-482104
		US-PATENT-CLASS-123-3			US-PATENT-CLASS-325-14			US-PATENT-CLASS-106-54
		US-PATENT-CLASS-23-281			US-PATENT-CLASS-343-100SA			US-PATENT-CLASS-427-376
		US-PATENT-CLASS-423-650			US-PATENT-CLASS-343-100ST			US-PATENT-CLASS-427-379
N76-18649*	c 44	US-PATENT-CLASS-48-116	N76-21366*	c 32	US-PATENT-CLASS-343-112TC	N76-22657*	c 44	US-PATENT-CLASS-427-380
		US-PATENT-CLASS-48-117			US-PATENT-3,949,400			US-PATENT-CLASS-427-402
		US-PATENT-CLASS-48-63			NASA-CASE-MFS-21311-1			US-PATENT-CLASS-428-332
		US-PATENT-CLASS-48-75			US-PATENT-APPL-SN-493359			US-PATENT-CLASS-428-428
N76-18650*	c 44	US-PATENT-CLASS-48-95	N76-21366*	c 32	US-PATENT-CLASS-244-3.22	N76-22657*	c 44	US-PATENT-CLASS-428-450
		US-PATENT-3,920,416			US-PATENT-3,948,470			US-PATENT-CLASS-428-538
		NASA-CASE-NPO-11961-1			NASA-CASE-LEW-11876-1			US-PATENT-CLASS-428-920
		US-PATENT-APPL-SN-378126			US-PATENT-APPL-SN-542157			US-PATENT-3,953,646
N76-18651*	c 44	US-PATENT-CLASS-136-30	N76-21366*	c 32	US-PATENT-CLASS-29-25.18	N76-22657*	c 44	NASA-CASE-LAR-11434-1
		US-PATENT-CLASS-136-6LF			US-PATENT-3,947,933			US-PATENT-APPL-SN-464722
		US-PATENT-CLASS-320-21			NASA-CASE-NPO-13568-1			US-PATENT-CLASS-209-127R
		US-PATENT-CLASS-320-22			US-PATENT-APPL-SN-534265			US-PATENT-CLASS-317-246
N76-18800*	c 60	US-PATENT-CLASS-320-22	N76-21366*	c 32	US-PATENT-CLASS-343-761	N76-22657*	c 44	US-PATENT-CLASS-324-61R
		US-PATENT-3,912,999			US-PATENT-CLASS-343-781			US-PATENT-CLASS-324-71CP
		NASA-CASE-NPO-13067-1			US-PATENT-CLASS-343-786			US-PATENT-3,953,792
		US-PATENT-APPL-SN-274348			US-PATENT-3,949,404			NASA-CASE-MFS-22636-1
N76-18913*	c 74	US-PATENT-CLASS-340-172.5	N76-21366*	c 32	US-PATENT-APPL-SN-533608	N76-22657*	c 44	US-PATENT-APPL-SN-536762
		US-PATENT-3,829,839			US-PATENT-CLASS-235-156			US-PATENT-CLASS-114-16.6
		NASA-CASE-GSC-11877-1			US-PATENT-CLASS-325-42			US-PATENT-CLASS-244-137P
		US-PATENT-APPL-SN-482953			US-PATENT-CLASS-333-18			US-PATENT-CLASS-244-158
N76-19338*	c 33	US-PATENT-CLASS-235-184	N76-21390*	c 33	US-PATENT-CLASS-333-18	N76-22541*	c 37	US-PATENT-CLASS-244-161
		US-PATENT-CLASS-250-199			US-PATENT-3,949,206			US-PATENT-3,952,976
		US-PATENT-3,937,945			NASA-CASE-ARC-10711-2			NASA-CASE-LEW-11676-1
		NASA-CASE-NPO-13519-1			US-PATENT-APPL-SN-493363			US-PATENT-APPL-SN-551184
N76-19339*	c 33	US-PATENT-APPL-SN-536761	N76-21554*	c 37	US-PATENT-APPL-SN-596788	N76-22657*	c 44	US-PATENT-CLASS-277-4
		US-PATENT-CLASS-128-2S			US-PATENT-CLASS-317-246			US-PATENT-CLASS-277-74
		US-PATENT-CLASS-33-155R			US-PATENT-CLASS-73-398C			US-PATENT-CLASS-277-93F
		US-PATENT-CLASS-33-174D			US-PATENT-3,948,102			US-PATENT-3,953,038
N76-19339*	c 33	US-PATENT-CLASS-73-88.5D	N76-21554*	c 37	US-PATENT-CLASS-11465-1	N76-22657*	c 44	NASA-CASE-MFS-22743-1
		US-PATENT-3,937,212			US-PATENT-APPL-SN-502137			US-PATENT-APPL-SN-518684
		NASA-CASE-ARC-10810-1			US-PATENT-CLASS-156-286			US-PATENT-CLASS-126-27
		US-PATENT-APPL-SN-489009			US-PATENT-CLASS-156-382			US-PATENT-3,951,129

N76-22914*	c 54	NASA-CASE-GSC-12082-1 US-PATENT-APPL-SN-676958	N76-24900*	c 54	NASA-CASE-MS-C-14733-1 NASA-CASE-MS-C-14735-1 US-PATENT-APPL-SN-522971 US-PATENT-CLASS-128-142.2 US-PATENT-CLASS-128-203 US-PATENT-CLASS-137-DIG.9 US-PATENT-CLASS-137-110 US-PATENT-CLASS-3,957,044	N76-29217*	c 05	US-PATENT-3,961,997 NASA-CASE-ARC-10470-3 US-PATENT-APPL-SN-206279 US-PATENT-APPL-SN-321180 US-PATENT-APPL-SN-496779 US-PATENT-CLASS-244-46 US-PATENT-CLASS-3,971,535
N76-22993*	c 74	NASA-CASE-ARC-10932-1 US-PATENT-APPL-SN-681001	N76-25049*	c 76	NASA-CASE-LEW-12094-1 US-PATENT-APPL-SN-508784 US-PATENT-CLASS-148-175 US-PATENT-CLASS-156-610 US-PATENT-CLASS-156-612 US-PATENT-CLASS-156-613 US-PATENT-CLASS-252-62.3 US-PATENT-CLASS-423-345 US-PATENT-CLASS-423-346 US-PATENT-3,956,032	N76-29347*	c 17	NASA-CASE-ARC-10849-1 US-PATENT-APPL-SN-563049 US-PATENT-CLASS-340-189M US-PATENT-CLASS-340-206 US-PATENT-CLASS-73-493 US-PATENT-CLASS-73-517R US-PATENT-3,972,038
N76-23273*	c 09	NASA-CASE-MFS-23099-1 US-PATENT-APPL-SN-607969 US-PATENT-CLASS-73-147 US-PATENT-3,952,590	N76-26175*	c 04	NASA-CASE-MFS-23551-1 US-PATENT-APPL-SN-114772 US-PATENT-CLASS-244-79 US-PATENT-CLASS-74-5.34 US-PATENT-3,739,646	N76-29379*	c 25	NASA-CASE-LEW-11390-3 US-PATENT-APPL-SN-247434 US-PATENT-APPL-SN-380046 US-PATENT-CLASS-176-11 US-PATENT-CLASS-176-14 US-PATENT-CLASS-176-16 US-PATENT-CLASS-250-400 US-PATENT-CLASS-250-429 US-PATENT-CLASS-250-492R US-PATENT-3,971,697
N76-23426*	c 27	NASA-CASE-MS-C-14270-2 US-PATENT-APPL-SN-482105 US-PATENT-CLASS-106-54 US-PATENT-CLASS-427-376 US-PATENT-CLASS-427-379 US-PATENT-CLASS-427-380 US-PATENT-CLASS-427-402 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-428 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-538 US-PATENT-CLASS-428-920 US-PATENT-3,955,034	N76-27232*	c 07	NASA-CASE-LAR-11476-1 US-PATENT-APPL-SN-592159 US-PATENT-CLASS-73-557 US-PATENT-3,964,319	N76-29551*	c 35	NASA-CASE-LAR-10907-1 US-PATENT-APPL-SN-559845 US-PATENT-CLASS-250-340 US-PATENT-CLASS-250-353 US-PATENT-3,971,940
N76-23570*	c 37	NASA-CASE-LEW-11169-1 US-PATENT-APPL-SN-446568 US-PATENT-CLASS-164-132 US-PATENT-3,957,104	N76-27383*	c 25	NASA-CASE-LEW-11390-2 US-PATENT-APPL-SN-247434 US-PATENT-APPL-SN-340863 US-PATENT-CLASS-176-11 US-PATENT-CLASS-176-16 US-PATENT-CLASS-423-249 US-PATENT-3,966,547	N76-29552*	c 35	NASA-CASE-MS-C-12617-1 US-PATENT-APPL-SN-513576 US-PATENT-CLASS-235-61NV US-PATENT-CLASS-235-78M US-PATENT-CLASS-235-88M US-PATENT-3,971,915
N76-23675*	c 44	NASA-CASE-MFS-21628-2 US-PATENT-APPL-SN-421702 US-PATENT-APPL-SN-561020 US-PATENT-CLASS-126-270 US-PATENT-CLASS-165-133 US-PATENT-3,957,030	N76-27472*	c 33	NASA-CASE-GSC-11924-1 US-PATENT-APPL-SN-582318 US-PATENT-CLASS-343-755 US-PATENT-CLASS-343-779 US-PATENT-CLASS-343-854 US-PATENT-3,965,475	N76-29575*	c 36	NASA-CASE-NPO-13346-1 US-PATENT-APPL-SN-533556 US-PATENT-CLASS-330-4.3 US-PATENT-CLASS-331-94.5C US-PATENT-3,972,008
N76-23850*	c 60	NASA-CASE-MS-C-14082-1 US-PATENT-APPL-SN-315070 US-PATENT-CLASS-340-347DD US-PATENT-CLASS-340-347P US-PATENT-3,958,238	N76-27473*	c 33	NASA-CASE-HQN-10876-1 US-PATENT-APPL-SN-555336 US-PATENT-CLASS-250-336 US-PATENT-CLASS-250-372 US-PATENT-3,965,354	N76-29588*	c 37	NASA-CASE-LEW-11949-1 US-PATENT-APPL-SN-590182 US-PATENT-CLASS-308-160 US-PATENT-CLASS-308-163 US-PATENT-CLASS-308-170 US-PATENT-3,971,602
N76-24280*	c 09	NASA-CASE-ARC-10808-1 US-PATENT-APPL-SN-505881 US-PATENT-CLASS-178-DIG.35 US-PATENT-CLASS-178-7.89 US-PATENT-CLASS-35-12N US-PATENT-3,956,833	N76-27515*	c 34	NASA-CASE-NPO-13391-1 US-PATENT-APPL-SN-446567 US-PATENT-CLASS-165-105 US-PATENT-CLASS-29-182 US-PATENT-CLASS-29-193 US-PATENT-CLASS-55-523 US-PATENT-CLASS-55-526 US-PATENT-CLASS-75-225 US-PATENT-3,964,902	N76-29590*	c 37	NASA-CASE-NPO-13613-1 US-PATENT-APPL-SN-574208 US-PATENT-CLASS-62-6 US-PATENT-3,971,230
N76-24363*	c 24	NASA-CASE-GSC-11786-1 US-PATENT-APPL-SN-401919 US-PATENT-CLASS-106-306 US-PATENT-CLASS-250-372 US-PATENT-CLASS-252-300 US-PATENT-CLASS-350-1 US-PATENT-3,957,675	N76-27517*	c 34	NASA-CASE-ARC-10755-2 US-PATENT-APPL-SN-424013 US-PATENT-APPL-SN-545284 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-194R US-PATENT-3,964,306	N76-29699*	c 44	NASA-CASE-HQN-10862-1 US-PATENT-APPL-SN-604374 US-PATENT-CLASS-136-143 US-PATENT-CLASS-136-30 US-PATENT-3,972,727
N76-24405*	c 27	NASA-CASE-MS-C-14331-1 US-PATENT-APPL-SN-374421 US-PATENT-CLASS-106-15FP US-PATENT-CLASS-260-DIG.24 US-PATENT-CLASS-260-33.8F US-PATENT-CLASS-260-45.7 US-PATENT-CLASS-260-92.1 US-PATENT-CLASS-526-1 US-PATENT-CLASS-526-255 US-PATENT-3,956,233	N76-27567*	c 37	NASA-CASE-LAR-11709-1 US-PATENT-APPL-SN-548468 US-PATENT-CLASS-339-17M US-PATENT-CLASS-339-18C US-PATENT-3,967,091	N76-29700*	c 44	NASA-CASE-NPO-13342-2 US-PATENT-APPL-SN-390049 US-PATENT-APPL-SN-548559 US-PATENT-CLASS-123-1A US-PATENT-CLASS-123-3 US-PATENT-CLASS-23-281 US-PATENT-CLASS-423-650 US-PATENT-CLASS-48-215 US-PATENT-CLASS-48-95 US-PATENT-3,955,941
N76-24523*	c 35	NASA-CASE-LAR-11500-1 US-PATENT-APPL-SN-534266 US-PATENT-CLASS-73-1B US-PATENT-CLASS-73-15.6 US-PATENT-3,956,919	N76-27568*	c 37	NASA-CASE-LAR-11726-1 US-PATENT-APPL-SN-538047 US-PATENT-CLASS-219-118 US-PATENT-CLASS-219-92 US-PATENT-3,967,091	N76-29701*	c 44	NASA-CASE-NPO-13567-1 US-PATENT-APPL-SN-566493 US-PATENT-CLASS-417-141 US-PATENT-CLASS-417-207 US-PATENT-CLASS-417-209 US-PATENT-CLASS-417-379 US-PATENT-CLASS-60-517 US-PATENT-CLASS-62-6 US-PATENT-3,972,651
N76-24524*	c 35	NASA-CASE-NPO-13462-1 US-PATENT-APPL-SN-545282 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-204 US-PATENT-3,956,932	N76-27664*	c 44	NASA-CASE-MFS-23059-1 US-PATENT-APPL-SN-537024 US-PATENT-CLASS-136-86A US-PATENT-3,964,928	N76-29704*	c 44	NASA-CASE-NPO-13464-2 US-PATENT-APPL-SN-428444 US-PATENT-APPL-SN-553687 US-PATENT-CLASS-252-373 US-PATENT-CLASS-42-215 US-PATENT-CLASS-423-650 US-PATENT-CLASS-431-163 US-PATENT-CLASS-431-210 US-PATENT-CLASS-431-4 US-PATENT-CLASS-48-197R US-PATENT-3,971,847
N76-24525*	c 35	NASA-CASE-ARC-10816-1 US-PATENT-APPL-SN-552454 US-PATENT-CLASS-128-DIG.4 US-PATENT-CLASS-128-2.05V US-PATENT-CLASS-128-2.1E US-PATENT-CLASS-128-2.1Z US-PATENT-3,957,037	N76-28563*	c 38	NASA-CASE-NPO-12142-1 US-PATENT-APPL-SN-637249 US-PATENT-CLASS-73-88.5 US-PATENT-3,545,262	N76-29891*	c 51	NASA-CASE-GSC-11917-2 US-PATENT-APPL-SN-475337 US-PATENT-APPL-SN-555641 US-PATENT-CLASS-195-103.5R US-PATENT-3,971,703
N76-24553*	c 36	NASA-CASE-NPO-13531-1 US-PATENT-APPL-SN-531565 US-PATENT-CLASS-331-94.5C US-PATENT-CLASS-350-96WG US-PATENT-3,958,188	N76-28635*	c 44	NASA-CASE-GSC-12022-1 NASA-CASE-GSC-12023-1 US-PATENT-APPL-SN-576488 US-PATENT-CLASS-136-89 US-PATENT-CLASS-148-174 US-PATENT-CLASS-148-175 US-PATENT-CLASS-156-612 US-PATENT-CLASS-156-613 US-PATENT-CLASS-156-614 US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-59 US-PATENT-CLASS-427-113 US-PATENT-CLASS-427-248 US-PATENT-CLASS-427-249 US-PATENT-CLASS-427-250 US-PATENT-CLASS-427-86	N76-29894*	c 52	NASA-CASE-ARC-10583-1 US-PATENT-APPL-SN-301418 US-PATENT-CLASS-128-2.1A US-PATENT-CLASS-128-2H US-PATENT-CLASS-128-2P US-PATENT-3,971,362
N76-24575*	c 37	NASA-CASE-LAR-10073-1 US-PATENT-APPL-SN-436317 US-PATENT-CLASS-156-242 US-PATENT-CLASS-156-286 US-PATENT-CLASS-264-102 US-PATENT-CLASS-264-267 US-PATENT-CLASS-428-117 US-PATENT-3,956,050						
N76-24696*	c 44	NASA-CASE-MFS-22744-1 US-PATENT-APPL-SN-518544 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-350-293 US-PATENT-CLASS-350-299 US-PATENT-3,958,553						

N77-13217*	c 27	US-PATENT-3,988,716 NASA-CASE-NPO-13666-1 US-PATENT-APPL-SN-633877 US-PATENT-CLASS-29-182.5 US-PATENT-3,990,860	N77-14580*	c 44	NASA-CASE-LEW-11496-1 US-PATENT-APPL-SN-645508 US-PATENT-CLASS-136-89 US-PATENT-CLASS-204-192 US-PATENT-3,996,067	US-PATENT-APPL-SN-593142 US-PATENT-CLASS-308-10 US-PATENT-4,000,929		
N77-13315*	c 33	NASA-CASE-NPO-11515-1 US-PATENT-APPL-SN-139596 US-PATENT-CLASS-307-233 US-PATENT-CLASS-307-295 US-PATENT-CLASS-328-133 US-PATENT-3,750,035	N77-14581*	c 44	NASA-CASE-LEW-12220-1 US-PATENT-APPL-SN-606891 US-PATENT-CLASS-320-2 US-PATENT-CLASS-429-23 US-PATENT-CLASS-429-34 US-PATENT-3,996,064	N77-17495*	c 38	NASA-CASE-GSC-11902-1 US-PATENT-APPL-SN-565289 US-PATENT-CLASS-235-92CA US-PATENT-CLASS-235-92CT US-PATENT-CLASS-235-92DN US-PATENT-CLASS-235-92R US-PATENT-4,001,552
N77-13418*	c 37	NASA-CASE-ARC-10905-1 US-PATENT-APPL-SN-618594 US-PATENT-CLASS-219-300 US-PATENT-CLASS-219-304 US-PATENT-CLASS-239-171 US-PATENT-CLASS-252-359A US-PATENT-3,990,987	N77-14735*	c 52	NASA-CASE-MFS-23225-1 US-PATENT-APPL-SN-612965 US-PATENT-CLASS-3-1.2 US-PATENT-CLASS-3-14 US-PATENT-3,995,324	N77-18154*	c 07	NASA-CASE-ARC-10761-1 US-PATENT-APPL-SN-612899 US-PATENT-CLASS-137-15.1 US-PATENT-CLASS-244-53B US-PATENT-4,007,891
N77-14025*	c 07	NASA-CASE-LEW-12419-1 US-PATENT-APPL-SN-579375 US-PATENT-CLASS-416-153 US-PATENT-CLASS-416-160 US-PATENT-CLASS-416-162 US-PATENT-CLASS-416-165 US-PATENT-CLASS-416-167 US-PATENT-CLASS-60-226R US-PATENT-3,994,128	N77-14736*	c 52	NASA-CASE-ARC-11007-1 US-PATENT-APPL-SN-652948 US-PATENT-CLASS-128-2H US-PATENT-CLASS-128-379 US-PATENT-CLASS-128-400 US-PATENT-CLASS-128-402 US-PATENT-3,995,621	N77-18307*	c 32	NASA-CASE-MFS-23303-1 US-PATENT-APPL-SN-676957 US-PATENT-CLASS-333-70R US-PATENT-CLASS-333-75 US-PATENT-CLASS-333-76 US-PATENT-CLASS-333-82B US-PATENT-4,007,434
N77-14292*	c 32	NASA-CASE-LAR-11607-1 US-PATENT-APPL-SN-617895 US-PATENT-CLASS-325-145 US-PATENT-CLASS-332-22 US-PATENT-CLASS-332-23R US-PATENT-3,996,532	N77-14737*	c 52	NASA-CASE-MSC-14276-1 US-PATENT-APPL-SN-557430 US-PATENT-CLASS-250-363R US-PATENT-CLASS-250-444 US-PATENT-CLASS-250-498 US-PATENT-3,996,471	N77-18382*	c 34	NASA-CASE-LAR-10805-2 US-PATENT-APPL-SN-428992 US-PATENT-APPL-SN-578240 US-PATENT-CLASS-244-117A US-PATENT-CLASS-427-160 US-PATENT-CLASS-427-322 US-PATENT-CLASS-428-35 US-PATENT-CLASS-428-421 US-PATENT-CLASS-428-461 US-PATENT-CLASS-428-474 US-PATENT-4,008,348
N77-14333*	c 33	NASA-CASE-GSC-11789-1 US-PATENT-APPL-SN-538982 US-PATENT-CLASS-317-31 US-PATENT-CLASS-321-13 US-PATENT-3,996,506	N77-14738*	c 52	NASA-CASE-KSC-10849-1 US-PATENT-APPL-SN-613734 US-PATENT-CLASS-128-418 US-PATENT-CLASS-3-1.1 US-PATENT-CLASS-339-252R US-PATENT-3,995,644	N77-18417*	c 35	NASA-CASE-ARC-10898-1 US-PATENT-APPL-SN-625732 US-PATENT-CLASS-73-12 US-PATENT-CLASS-73-432SD US-PATENT-CLASS-73-71.6 US-PATENT-4,007,623
N77-14334*	c 33	NASA-CASE-GSC-12018-1 US-PATENT-APPL-SN-635531 US-PATENT-CLASS-329-122 US-PATENT-CLASS-329-124 US-PATENT-CLASS-331-23 US-PATENT-CLASS-331-36C US-PATENT-CLASS-332-30V US-PATENT-3,997,848	N77-14751*	c 60	NASA-CASE-GSC-11839-1 US-PATENT-APPL-SN-468614 US-PATENT-CLASS-235-152 US-PATENT-CLASS-250-227 US-PATENT-CLASS-340-172.5 US-PATENT-CLASS-350-96R US-PATENT-3,996,455	N77-18891*	c 73	NASA-CASE-NPO-13121-1 US-PATENT-APPL-SN-294727 US-PATENT-CLASS-310-4R US-PATENT-CLASS-313-311 US-PATENT-CLASS-346R US-PATENT-4,008,407
N77-14335*	c 33	NASA-CASE-MFS-22560-1 US-PATENT-APPL-SN-589233 US-PATENT-CLASS-250-214A US-PATENT-CLASS-330-14 US-PATENT-CLASS-330-28 US-PATENT-CLASS-330-59 US-PATENT-3,996,462	N77-17029*	c 05	NASA-CASE-ARC-10807-1 US-PATENT-APPL-SN-513612 US-PATENT-CLASS-416-104 US-PATENT-CLASS-416-138 US-PATENT-CLASS-416-141 US-PATENT-3,999,886	N77-18893*	c 74	NASA-CASE-MSC-14683-1 US-PATENT-APPL-SN-612967 US-PATENT-CLASS-358-44 US-PATENT-4,004,292
N77-14406*	c 35	NASA-CASE-NPO-13663-1 US-PATENT-APPL-SN-634205 US-PATENT-CLASS-250-289 US-PATENT-CLASS-250-298 US-PATENT-3,996,464	N77-17059*	c 07	NASA-CASE-LEW-12760-1 US-PATENT-APPL-SN-569925 US-PATENT-CLASS-60-226A US-PATENT-CLASS-60-228 US-PATENT-4,005,574	N77-19056*	c 04	NASA-CASE-LAR-11387-2 US-PATENT-APPL-SN-531647 US-PATENT-APPL-SN-623156 US-PATENT-CLASS-33-356 US-PATENT-CLASS-73-178R US-PATENT-4,006,631
N77-14407*	c 35	NASA-CASE-LAR-11648-1 US-PATENT-APPL-SN-645571 US-PATENT-CLASS-73-133R US-PATENT-3,995,476	N77-17143*	c 20	NASA-CASE-XLA-1349 US-PATENT-APPL-SN-256493 US-PATENT-APPL-SN-54552 US-PATENT-CLASS-102-49.3 US-PATENT-CLASS-264-3R US-PATENT-CLASS-86-1R US-PATENT-CLASS-86-20R US-PATENT-4,000,682	N77-19076*	c 09	NASA-CASE-ARC-10979-1 US-PATENT-APPL-SN-608483 US-PATENT-CLASS-124-6 US-PATENT-CLASS-244-63 US-PATENT-3,989,206
N77-14408*	c 35	NASA-CASE-ARC-10448-3 US-PATENT-APPL-SN-221670 US-PATENT-APPL-SN-318848 US-PATENT-CLASS-250-396 US-PATENT-3,996,468	N77-17161*	c 23	NASA-CASE-MSC-14428-1 US-PATENT-APPL-SN-450504 US-PATENT-CLASS-23-230B US-PATENT-CLASS-23-230M US-PATENT-CLASS-23-230R US-PATENT-CLASS-23-231 US-PATENT-CLASS-23-232C US-PATENT-CLASS-23-232R US-PATENT-CLASS-23-254R US-PATENT-CLASS-55-197 US-PATENT-CLASS-55-67 US-PATENT-CLASS-55-74 US-PATENT-CLASS-73-23.1 US-PATENT-CLASS-73-61.1C US-PATENT-4,003,257	N77-19170*	c 24	NASA-CASE-LEW-12550-1 US-PATENT-APPL-SN-596905 US-PATENT-CLASS-416-224 US-PATENT-CLASS-416-230 US-PATENT-4,006,999
N77-14409*	c 35	NASA-CASE-NPO-13540-1 US-PATENT-APPL-SN-526450 US-PATENT-CLASS-136-232 US-PATENT-CLASS-136-233 US-PATENT-3,996,070	N77-17351*	c 33	NASA-CASE-MFS-23181-1 US-PATENT-APPL-SN-566495 US-PATENT-CLASS-331-114 US-PATENT-CLASS-331-177V US-PATENT-CLASS-332-18 US-PATENT-CLASS-332-30V US-PATENT-4,003,004	N77-19171*	c 24	NASA-CASE-LEW-12619-1 US-PATENT-APPL-SN-462424 US-PATENT-CLASS-204-16 US-PATENT-CLASS-204-40 US-PATENT-CLASS-204-9 US-PATENT-CLASS-29-527.2 US-PATENT-3,989,602
N77-14411*	c 35	NASA-CASE-NPO-13683-1 US-PATENT-APPL-SN-599284 US-PATENT-CLASS-250-343 US-PATENT-CLASS-356-201 US-PATENT-CLASS-356-204 US-PATENT-CLASS-356-97 US-PATENT-3,995,960	N77-17354*	c 33	NASA-CASE-LEW-11881-1 US-PATENT-APPL-SN-598968 US-PATENT-CLASS-307-229 US-PATENT-CLASS-307-230 US-PATENT-CLASS-328-161 US-PATENT-4,001,602	N77-19353*	c 34	NASA-CASE-ARC-10912-1 US-PATENT-APPL-SN-623187 US-PATENT-CLASS-62-100 US-PATENT-CLASS-62-121 US-PATENT-CLASS-62-269 US-PATENT-CLASS-62-315 US-PATENT-4,007,601
N77-14477*	c 37	NASA-CASE-FRC-10081-1 US-PATENT-APPL-SN-598504 US-PATENT-CLASS-280-432 US-PATENT-3,995,877	N77-17426*	c 35	NASA-CASE-MFS-22671-2 US-PATENT-APPL-SN-419831 US-PATENT-APPL-SN-561956 US-PATENT-CLASS-360-25 US-PATENT-CLASS-360-31 US-PATENT-4,003,084	N77-19385*	c 35	NASA-CASE-MSC-14653-1 US-PATENT-APPL-SN-521816 US-PATENT-CLASS-177-1 US-PATENT-CLASS-177-208 US-PATENT-CLASS-73-432R US-PATENT-3,988,933
N77-14478*	c 37	NASA-CASE-LAR-11658-1 US-PATENT-APPL-SN-625759 US-PATENT-CLASS-83-451 US-PATENT-CLASS-83-467R US-PATENT-3,995,522	N77-17464*	c 37	NASA-CASE-GSC-11978-1	N77-19416*	c 36	NASA-CASE-XNP-04167-3 US-PATENT-APPL-SN-170544 US-PATENT-APPL-SN-479357 US-PATENT-CLASS-331-94.5D US-PATENT-CLASS-331-94.5G US-PATENT-CLASS-331-94.5PE US-PATENT-4,007,430
N77-14479*	c 37	NASA-CASE-GSC-11960-1 US-PATENT-APPL-SN-629456 US-PATENT-CLASS-242-187 US-PATENT-CLASS-242-193 US-PATENT-CLASS-242-204 US-PATENT-CLASS-242-210 US-PATENT-CLASS-242-57 US-PATENT-3,995,789				N77-19457*	c 37	NASA-CASE-MFS-15218-1 US-PATENT-APPL-SN-387094 US-PATENT-CLASS-197-188 US-PATENT-CLASS-197-189

N77-19458*	c 37	US-PATENT-3,989,136	N77-21316*	c 33	US-PATENT-CLASS-313-32	N77-23482*	c 37	US-PATENT-CLASS-123-41.33
		NASA-CASE-GSC-11883-1			US-PATENT-CLASS-315-344			US-PATENT-CLASS-137-101
		NASA-CASE-GSC-11974-1			US-PATENT-3,881,132			US-PATENT-CLASS-415-180
		NASA-CASE-GSC-11975-1			NASA-CASE-NPO-10790-1			US-PATENT-CLASS-60-39.03
		US-PATENT-APPL-SN-596787			US-PATENT-APPL-SN-841278			US-PATENT-CLASS-60-39.28R
		US-PATENT-CLASS-310-4A			US-PATENT-CLASS-313-175			US-PATENT-CLASS-60-39.66
		US-PATENT-CLASS-337-334			US-PATENT-CLASS-313-180			US-PATENT-4,020,632
		US-PATENT-CLASS-340-224			US-PATENT-CLASS-313-184			NASA-CASE-LAR-11563-1
		US-PATENT-CLASS-60-527			US-PATENT-CLASS-315-108			US-PATENT-APPL-SN-672815
		US-PATENT-CLASS-75-122.7			US-PATENT-CLASS-315-110			US-PATENT-CLASS-29-DIG.35
		US-PATENT-CLASS-75-170			US-PATENT-3,621,330			US-PATENT-CLASS-29-447
		US-PATENT-4,010,455			NASA-CASE-NPO-10711-1			US-PATENT-CLASS-403-273
N77-19571*	c 44	NASA-CASE-LEW-11549-1	N77-21392*	c 35	US-PATENT-APPL-SN-844315	N77-23483*	c 37	US-PATENT-CLASS-53-9
		US-PATENT-APPL-SN-510677			US-PATENT-CLASS-179-100.2C			US-PATENT-4,017,959
		US-PATENT-CLASS-136-89			US-PATENT-3,697,705			NASA-CASE-MFS-23088-1
		US-PATENT-3,989,541			NASA-CASE-NPO-10619-1			US-PATENT-APPL-SN-602617
N77-19760*	c 60	NASA-CASE-ARC-10899-1	N77-21393*	c 35	US-PATENT-APPL-SN-757017			US-PATENT-CLASS-213-81
		US-PATENT-APPL-SN-576774			US-PATENT-CLASS-338-25			US-PATENT-CLASS-214-1CM
		US-PATENT-CLASS-178-69.5R			US-PATENT-3,555,483			US-PATENT-CLASS-244-161
		US-PATENT-CLASS-179-158S			NASA-CASE-MFS-23074-1			US-PATENT-4,018,409
		US-PATENT-CLASS-340-172.5			US-PATENT-APPL-SN-623188	N77-24328*	c 32	NASA-CASE-ARC-10984-1
		US-PATENT-3,990,049			US-PATENT-CLASS-188-291			US-PATENT-APPL-SN-690815
N77-20162*	c 20	NASA-CASE-LEW-12048-1			US-PATENT-CLASS-254-158			US-PATENT-CLASS-358-133
		US-PATENT-APPL-SN-665033			US-PATENT-4,018,423			US-PATENT-CLASS-358-138
		US-PATENT-CLASS-313-230			NASA-CASE-NPO-11429-1	N77-24331*	c 32	US-PATENT-4,025,950
		US-PATENT-CLASS-313-231.3			US-PATENT-APPL-SN-95189			NASA-CASE-MS-14840-1
		US-PATENT-CLASS-313-360			US-PATENT-CLASS-240-41.35R			US-PATENT-APPL-SN-692414
		US-PATENT-CLASS-315-111.3			US-PATENT-CLASS-240-41R			US-PATENT-CLASS-178-88
		US-PATENT-CLASS-315-111.6			US-PATENT-CLASS-240-46.13			US-PATENT-CLASS-325-346
		US-PATENT-CLASS-60-202			US-PATENT-CLASS-356-236			US-PATENT-CLASS-329-104
		US-PATENT-4,011,719			US-PATENT-3,711,701			US-PATENT-CLASS-329-122
N77-20201*	c 26	NASA-CASE-LEW-12245-1	N77-22386*	c 33	NASA-CASE-NPO-10870-1			US-PATENT-4,027,265
		US-PATENT-APPL-SN-584094			NASA-CASE-NPO-11191-1	N77-24375*	c 33	NASA-CASE-MS-12709-1
		US-PATENT-CLASS-148-12.7N			NASA-CASE-NPO-11403-1			US-PATENT-APPL-SN-630583
		US-PATENT-CLASS-148-162			US-PATENT-APPL-SN-108810			US-PATENT-CLASS-307-225R
		US-PATENT-CLASS-148-2			US-PATENT-CLASS-313-146			US-PATENT-CLASS-328-38
		US-PATENT-CLASS-148-20.3			US-PATENT-CLASS-313-182			US-PATENT-CLASS-328-39
		US-PATENT-CLASS-148-32.5			US-PATENT-CLASS-313-60			US-PATENT-CLASS-328-4.8
		US-PATENT-CLASS-75-170			US-PATENT-3,736,453			US-PATENT-CLASS-328-63
		US-PATENT-4,012,237			NASA-CASE-LAR-11825-1	N77-24423*	c 34	US-PATENT-4,025,866
N77-20289*	c 32	NASA-CASE-NPO-13753-1			US-PATENT-APPL-SN-632112			NASA-CASE-LAR-12045-1
		US-PATENT-APPL-SN-658449			US-PATENT-CLASS-73-88R			US-PATENT-APPL-SN-682416
		US-PATENT-CLASS-325-4			US-PATENT-4,018,085			US-PATENT-CLASS-259/4R
		US-PATENT-CLASS-343-100ST			NASA-CASE-MFS-23281-1			US-PATENT-CLASS-261-DIG.75
		US-PATENT-CLASS-343-6.BR			US-PATENT-APPL-SN-657995			US-PATENT-CLASS-261-123
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-73-15.6			US-PATENT-4,026,527
		US-PATENT-4,012,696			US-PATENT-CLASS-73-95	N77-24454*	c 35	NASA-CASE-ARC-10900-1
N77-20399*	c 35	NASA-CASE-ARC-10716-1			US-PATENT-4,018,080			US-PATENT-APPL-SN-630579
		US-PATENT-APPL-SN-403695			NASA-CASE-NPO-10316-1			US-PATENT-CLASS-338-229
		US-PATENT-CLASS-235-150.2			US-PATENT-APPL-SN-703107			US-PATENT-CLASS-338-28
		US-PATENT-CLASS-235-150.25			US-PATENT-CLASS-60-53			US-PATENT-4,025,891
		US-PATENT-CLASS-244-165			US-PATENT-3,478,514	N77-24455*	c 35	NASA-CASE-GSC-12077-1
		US-PATENT-CLASS-244-171			NASA-CASE-NPO-13058-1			US-PATENT-APPL-SN-635519
		US-PATENT-CLASS-244-3.21			NASA-CASE-NPO-13096-1			US-PATENT-CLASS-65-108
		US-PATENT-4,012,018			US-PATENT-APPL-SN-403154			US-PATENT-CLASS-65-59A
N77-20400*	c 35	NASA-CASE-ARC-10911-1			US-PATENT-CLASS-214-16.1CB			US-PATENT-CLASS-6554
		US-PATENT-APPL-SN-610802			US-PATENT-3,896,955			US-PATENT-CLASS-6564
		US-PATENT-CLASS-338-28			NASA-CASE-MS-19536-1	N77-25499*	c 36	US-PATENT-4,025,327
		US-PATENT-CLASS-73-204			US-PATENT-APPL-SN-658450			NASA-CASE-GSC-11571-1
		US-PATENT-4,011,756			US-PATENT-CLASS-74-96			US-PATENT-APPL-SN-646704
N77-20401*	c 35	NASA-CASE-MFS-23267-1			US-PATENT-4,018,092			US-PATENT-CLASS-331-94.5S
		US-PATENT-APPL-SN-653422			NASA-CASE-LEW-12364-1			US-PATENT-4,025,875
		US-PATENT-CLASS-126-270			US-PATENT-APPL-SN-707124	N77-25501*	c 36	NASA-CASE-ARC-10970-1
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-253-317			US-PATENT-APPL-SN-691046
		US-PATENT-CLASS-250-203R			US-PATENT-CLASS-429-105			US-PATENT-CLASS-250-574
		US-PATENT-4,011,854			US-PATENT-CLASS-429-190			US-PATENT-CLASS-350-100
N77-20882*	c 74	NASA-CASE-LAR-11782-1			US-PATENT-CLASS-429-190			US-PATENT-CLASS-350-102
		US-PATENT-APPL-SN-608482			US-PATENT-4,018,971			US-PATENT-CLASS-356-28
		US-PATENT-CLASS-350-145			NASA-CASE-LAR-11361-1			US-PATENT-4,026,855
		US-PATENT-CLASS-350-174			US-PATENT-APPL-SN-669928	N77-25502*	c 36	NASA-CASE-NPO-13147-1
		US-PATENT-4,012,123			US-PATENT-CLASS-23-277R			US-PATENT-APPL-SN-317310
N77-21267*	c 32	NASA-CASE-LAR-11390-1			US-PATENT-CLASS-23-281			US-PATENT-CLASS-330-4.3
		US-PATENT-APPL-SN-662176			US-PATENT-CLASS-423-648R			US-PATENT-CLASS-331-94.5D
		US-PATENT-CLASS-340-5H			US-PATENT-CLASS-55-158			US-PATENT-CLASS-331-94.5P
		US-PATENT-CLASS-343-18B			US-PATENT-4,019,868			US-PATENT-4,027,273
		US-PATENT-CLASS-343-5CM			NASA-CASE-GSC-12039-1	N77-25769*	c 51	NASA-CASE-LAR-10773-3
		US-PATENT-CLASS-343-5MM			US-PATENT-APPL-SN-572991			US-PATENT-APPL-SN-125235
		US-PATENT-4,019,179			US-PATENT-CLASS-195-103.5K			US-PATENT-APPL-SN-314656
N77-21314*	c 33	NASA-CASE-NPO-10189-1			US-PATENT-CLASS-195-103.5R			US-PATENT-APPL-SN-623238
		NASA-CASE-NPO-10781-1			US-PATENT-4,014,745			US-PATENT-CLASS-195-1.8
		US-PATENT-APPL-SN-744522			NASA-CASE-ARC-10976-1			US-PATENT-4,018,649
		US-PATENT-CLASS-307-232			US-PATENT-APPL-SN-665032	N77-25772*	c 52	NASA-CASE-KSC-11030-1
		US-PATENT-CLASS-307-238			US-PATENT-CLASS-356-171			US-PATENT-APPL-SN-709849
		US-PATENT-CLASS-307-280			US-PATENT-4,018,533			US-PATENT-CLASS-128-1R
		US-PATENT-CLASS-329-119			NASA-CASE-NPO-13722-1			US-PATENT-CLASS-3-1
		US-PATENT-CLASS-329-205			US-PATENT-APPL-SN-616472			US-PATENT-CLASS-339,12R
		US-PATENT-CLASS-332-16			US-PATENT-CLASS-250-203R			US-PATENT-4,025,964
		US-PATENT-CLASS-332-30			US-PATENT-CLASS-250-211K	N77-26385*	c 33	NASA-CASE-LEW-11978-1
		US-PATENT-CLASS-332-52			US-PATENT-CLASS-356-141			US-PATENT-APPL-SN-708658
		US-PATENT-3,582,828			US-PATENT-CLASS-356-152			US-PATENT-CLASS-204-32A
N77-21315*	c 33	NASA-CASE-NPO-11510-1			US-PATENT-CLASS-356-172			US-PATENT-CLASS-29-597
		US-PATENT-APPL-SN-173178			US-PATENT-4,018,532			US-PATENT-CLASS-29-622
		US-PATENT-APPL-SN-385059			NASA-CASE-LEW-12830-1			US-PATENT-CLASS-29-628
		US-PATENT-CLASS-313-161			US-PATENT-APPL-SN-596641			US-PATENT-CLASS-29-630E
		US-PATENT-CLASS-313-184			US-PATENT-APPL-SN-655149			US-PATENT-4,023,266
		US-PATENT-CLASS-313-224			US-PATENT-CLASS-123-122E	N77-26386*	c 33	NASA-CASE-GSC-11824-1

			US-PATENT-APPL-SN-583486				US-PATENT-APPL-SN-394898				US-PATENT-CLASS-325-42
			US-PATENT-CLASS-318-138				US-PATENT-CLASS-415-145				US-PATENT-CLASS-325-473
			US-PATENT-CLASS-318-227				US-PATENT-CLASS-60-226R				US-PATENT-CLASS-325-65
			US-PATENT-CLASS-318-254				US-PATENT-CLASS-60-263				US-PATENT-4,041,391
			US-PATENT-4,027,212				US-PATENT-4,033,119		N77-30309*	c 32	NASA-CASE-GSC-11898-1
N77-26387*	c 33		NASA-CASE-LAR-11389-1	N77-28225*	c 24		NASA-CASE-MS-12631-1				US-PATENT-APPL-SN-566494
			US-PATENT-APPL-SN-229143				US-PATENT-APPL-SN-568541				US-PATENT-CLASS-179-15A
			US-PATENT-APPL-SN-340862				US-PATENT-CLASS-156-229				US-PATENT-CLASS-179-15P
			US-PATENT-CLASS-310-111				US-PATENT-CLASS-244-123		N77-30365*	c 33	US-PATENT-4,039,754
			US-PATENT-CLASS-310-168				US-PATENT-CLASS-428-141				NASA-CASE-NPO-13812-1
			US-PATENT-CLASS-322-96				US-PATENT-CLASS-428-161				US-PATENT-APPL-SN-694855
			US-PATENT-3,849,720				US-PATENT-CLASS-428-425				US-PATENT-CLASS-307-64
N77-26477*	c 36		NASA-CASE-NPO-13550-1				US-PATENT-CLASS-428-457				US-PATENT-CLASS-363-53
			US-PATENT-APPL-SN-483301				US-PATENT-CLASS-428-458				US-PATENT-CLASS-363-70
			US-PATENT-CLASS-250-281				US-PATENT-4,032,089				US-PATENT-4,039,925
			US-PATENT-CLASS-250-282	N77-28265*	c 26		NASA-CASE-LEW-11573-1		N77-30399*	c 34	NASA-CASE-MFS-19287-1
			US-PATENT-CLASS-250-283				US-PATENT-APPL-SN-625733				US-PATENT-APPL-SN-641802
			US-PATENT-CLASS-250-423P				US-PATENT-CLASS-228-190				US-PATENT-CLASS-137-207
			US-PATENT-4,031,389				US-PATENT-CLASS-228-194				US-PATENT-CLASS-137-209
N77-26919*	c 71		NASA-CASE-NPO-13673-1				US-PATENT-CLASS-228-232				US-PATENT-CLASS-60-259
			US-PATENT-APPL-SN-613004				US-PATENT-4,033,504				US-PATENT-CLASS-62-55
			US-PATENT-CLASS-330-5.5	N77-28346*	c 32		NASA-CASE-GSC-12053-1				US-PATENT-4,039,000
			US-PATENT-CLASS-331-107A				US-PATENT-APPL-SN-667930		N77-30436*	c 35	NASA-CASE-MFS-23175-1
			US-PATENT-CLASS-333-72				US-PATENT-CLASS-250-199				US-PATENT-APPL-SN-667928
			US-PATENT-4,025,876				US-PATENT-CLASS-250-238				US-PATENT-CLASS-324-163
N77-26942*	c 74		NASA-CASE-GSC-12058-1				US-PATENT-4,033,882				US-PATENT-CLASS-324-165
			US-PATENT-APPL-SN-680938	N77-28385*	c 33		NASA-CASE-LEW-12444-1				US-PATENT-CLASS-324-174
			US-PATENT-CLASS-250-199				US-PATENT-APPL-SN-583485				US-PATENT-CLASS-340-271
			US-PATENT-4,025,783				US-PATENT-CLASS-123-148CB				US-PATENT-CLASS-340-347P
N77-27116*	c 07		NASA-CASE-LEW-12608-1				US-PATENT-CLASS-123-148E				US-PATENT-CLASS-340-347SY
			US-PATENT-APPL-SN-680067				US-PATENT-CLASS-315-176				US-PATENT-4,039,946
			US-PATENT-CLASS-416-220R				US-PATENT-4,033,316		N77-30749*	c 54	NASA-CASE-KSC-11004-1
			US-PATENT-CLASS-416-221	N77-28486*	c 37		NASA-CASE-LEW-11158-1				US-PATENT-APPL-SN-710032
			US-PATENT-4,033,705				US-PATENT-APPL-SN-663008				US-PATENT-CLASS-3-2
N77-27131*	c 09		NASA-CASE-LAR-11883-1				US-PATENT-CLASS-308-5R				US-PATENT-CLASS-3-21
			US-PATENT-APPL-SN-662175				US-PATENT-CLASS-308-73				US-PATENT-4,038,705
			US-PATENT-CLASS-73-15R				US-PATENT-CLASS-308-9		N77-31308*	c 27	NASA-CASE-NPO-11609-2
			US-PATENT-4,027,524				US-PATENT-4,035,037				US-PATENT-APPL-SN-228229
N77-27187*	c 24		NASA-CASE-MFS-22926-1	N77-28487*	c 37		NASA-CASE-MS-14905-1				US-PATENT-APPL-SN-674700
			US-PATENT-APPL-SN-557565				US-PATENT-APPL-SN-708795				US-PATENT-CLASS-210-DIG.27
			US-PATENT-CLASS-164-60				US-PATENT-CLASS-128-DIG.12				US-PATENT-CLASS-210-40
			US-PATENT-CLASS-75-135				US-PATENT-CLASS-128-214F				US-PATENT-CLASS-260-2.5A
			US-PATENT-CLASS-75-139				US-PATENT-CLASS-222-61				US-PATENT-CLASS-260-2.5AM
			US-PATENT-CLASS-75-65R				US-PATENT-CLASS-222-95				US-PATENT-CLASS-260-2.5AY
			US-PATENT-4,029,500				US-PATENT-4,033,479				US-PATENT-CLASS-260-77.5AP
N77-27188*	c 24		NASA-CASE-LEW-12118-1	N77-28511*	c 39		NASA-CASE-MFS-23299-1				US-PATENT-4,039,489
			US-PATENT-APPL-SN-616332				US-PATENT-APPL-SN-700673		N77-31350*	c 32	NASA-CASE-GSC-12075-1
			US-PATENT-CLASS-428-301				US-PATENT-CLASS-73-67.7				US-PATENT-APPL-SN-562499
			US-PATENT-CLASS-428-328				US-PATENT-CLASS-73-88R				US-PATENT-CLASS-343-17.7
			US-PATENT-CLASS-428-368				US-PATENT-4,033,182				US-PATENT-4,042,926
			US-PATENT-CLASS-428-418	N77-28716*	c 52		NASA-CASE-LEW-12258-1		N77-31404*	c 33	NASA-CASE-ARC-10897-1
			US-PATENT-CLASS-428-457				US-PATENT-APPL-SN-676433				US-PATENT-APPL-SN-625781
			US-PATENT-CLASS-428-902				US-PATENT-CLASS-128-1R				US-PATENT-CLASS-323-93
			US-PATENT-CLASS-428-911				US-PATENT-CLASS-128-303R				US-PATENT-CLASS-324-60
			US-PATENT-4,029,838				US-PATENT-4,033,349				US-PATENT-CLASS-340-200
N77-27345*	c 34		NASA-CASE-ARC-10974-1	N77-28717*	c 52		NASA-CASE-MS-14623-1				US-PATENT-CLASS-340-347SH
			US-PATENT-APPL-SN-667010				US-PATENT-APPL-SN-637269				US-PATENT-4,040,041
			US-PATENT-CLASS-73-189				US-PATENT-CLASS-128-DIG.4		N77-31465*	c 35	NASA-CASE-MFS-23118-1
			US-PATENT-CLASS-73-228				US-PATENT-CLASS-128-2.1E				US-PATENT-APPL-SN-691256
			US-PATENT-4,028,939				US-PATENT-CLASS-128-410				US-PATENT-CLASS-356-212
N77-27366*	c 35		NASA-CASE-GSC-12059-1				US-PATENT-4,033,334				US-PATENT-4,040,750
			US-PATENT-APPL-SN-680957	N77-28932*	c 74		NASA-CASE-GSC-11989-1		N77-31497*	c 37	NASA-CASE-NPO-13671-1
			US-PATENT-CLASS-331-94.5D				US-PATENT-APPL-SN-645500				US-PATENT-APPL-SN-564622
			US-PATENT-CLASS-331-94.5T				US-PATENT-CLASS-350-162SF				US-PATENT-CLASS-123-DIG.8
			US-PATENT-CLASS-350-253				US-PATENT-CLASS-350-202				US-PATENT-CLASS-123-119A
			US-PATENT-4,030,047				US-PATENT-CLASS-350-299				US-PATENT-CLASS-123-122AB
N77-27367*	c 35		NASA-CASE-NPO-11103-1				US-PATENT-4,035,062				US-PATENT-CLASS-123-3
			US-PATENT-APPL-SN-3654	N77-28933*	c 74		NASA-CASE-NPO-13707-1				US-PATENT-CLASS-123-37
			US-PATENT-CLASS-73-84				US-PATENT-APPL-SN-617202				US-PATENT-CLASS-123-59E
			US-PATENT-3,623,359				US-PATENT-CLASS-350-288				US-PATENT-4,041,910
N77-27368*	c 35		NASA-CASE-MS-12327-1				US-PATENT-CLASS-350-310		N77-31601*	c 44	NASA-CASE-LEW-12587-1
			US-PATENT-APPL-SN-19572				US-PATENT-CLASS-350-320				US-PATENT-APPL-SN-717319
			US-PATENT-CLASS-73-362AR				US-PATENT-4,035,065				US-PATENT-CLASS-136-89AC
			US-PATENT-3,613,454	N77-29260*	c 26		NASA-CASE-MFS-23405-1				US-PATENT-CLASS-136-89P
N77-27400*	c 37		NASA-CASE-GSC-11063-1				US-PATENT-APPL-SN-718267				US-PATENT-CLASS-52-173R
			US-PATENT-APPL-SN-41431				US-PATENT-CLASS-228-124				US-PATENT-CLASS-52-51
			US-PATENT-CLASS-318-267				US-PATENT-CLASS-228-263				US-PATENT-4,040,867
			US-PATENT-CLASS-318-468				US-PATENT-4,033,503		N77-32148*	c 07	NASA-CASE-LEW-12312-1
			US-PATENT-CLASS-318-470				US-PATENT-APPL-SN-666992				US-PATENT-APPL-SN-654787
			US-PATENT-CLASS-318-675	N77-30236*	c 27		NASA-CASE-NPO-13620-1				US-PATENT-CLASS-416-135
			US-PATENT-3,628,113				US-PATENT-CLASS-210-24				US-PATENT-CLASS-416-190
N77-27677*	c 51		NASA-CASE-LAR-11649-1				US-PATENT-CLASS-536-105				US-PATENT-CLASS-416-193A
			US-PATENT-APPL-SN-626942				US-PATENT-CLASS-536-85				US-PATENT-CLASS-416-241A
			US-PATENT-CLASS-118-313				US-PATENT-CLASS-536-56				US-PATENT-4,045,149
			US-PATENT-CLASS-118-6				US-PATENT-CLASS-536-58		N77-32255*	c 25	NASA-CASE-NPO-13566-1
			US-PATENT-CLASS-118-7				US-PATENT-CLASS-536-84				US-PATENT-APPL-SN-653316
			US-PATENT-CLASS-118-9				US-PATENT-4,041,233				US-PATENT-CLASS-204-DIG.11
			US-PATENT-CLASS-23-253A	N77-30237*	c 27		NASA-CASE-MFS-23345-1				US-PATENT-CLASS-204-157.1R
			US-PATENT-CLASS-23-259				US-PATENT-APPL-SN-696989				US-PATENT-CLASS-204-158R
			US-PATENT-CLASS-23-292				US-PATENT-CLASS-106-292				US-PATENT-CLASS-204-162R
			US-PATENT-CLASS-424-3				US-PATENT-CLASS-106-296				US-PATENT-CLASS-250-527
			US-PATENT-CLASS-427-4				US-PATENT-CLASS-106-299				US-PATENT-4,045,359
			US-PATENT-CLASS-8-3				US-PATENT-4,039,347		N77-32279*	c 26	NASA-CASE-LEW-12906-1
			US-PATENT-CLASS-8-94.11	N77-30308*	c 32		NASA-CASE-GSC-12017-1				US-PATENT-APPL-SN-691936
			US-PATENT-4,029,470				US-PATENT-APPL-SN-645510				US-PATENT-CLASS-148-32
N77-28118*	c 07		NASA-CASE-LAR-11310-1				US-PATENT-CLASS-325-30				US-PATENT-CLASS-75-170

N77-32280*	c 26	US-PATENT-4,045,255	N77-32731*	c 60	NASA-CASE-GSC-11839-3	N78-10686*	c 52	US-PATENT-CLASS-350-299
		NASA-CASE-LEW-12270-1			US-PATENT-APPL-SN-468614			US-PATENT-4,051,834
		US-PATENT-APPL-SN-645507			US-PATENT-APPL-SN-657997			NASA-CASE-ARC-10916-1
		US-PATENT-CLASS-148-32.5			US-PATENT-CLASS-250-199			US-PATENT-APPL-SN-701448
N77-32308*	c 27	US-PATENT-CLASS-75-170	N77-32919*	c 76	US-PATENT-CLASS-340-347AD	N78-10709*	c 60	US-PATENT-CLASS-3-1.2
		US-PATENT-4,046,560			US-PATENT-CLASS-350-96R			US-PATENT-CLASS-3-15
		NASA-CASE-GSC-12110-1			US-PATENT-4,045,792			US-PATENT-CLASS-3-29
		US-PATENT-APPL-SN-682435			NASA-CASE-MFS-23001-1			US-PATENT-4,051,558
N77-32342*	c 32	US-PATENT-CLASS-156-645	N78-10214*	c 24	US-PATENT-APPL-SN-610801	N78-10837*	c 71	NASA-CASE-GSC-11839-2
		US-PATENT-CLASS-156-663			US-PATENT-CLASS-156-DIG.62			US-PATENT-APPL-SN-468614
		US-PATENT-4,046,619			US-PATENT-CLASS-156-601			US-PATENT-APPL-SN-657996
		NASA-CASE-NPO-13587-1			US-PATENT-CLASS-156-619			US-PATENT-CLASS-340-173LM
N77-32413*	c 34	US-PATENT-CLASS-343-100CL	N78-10224*	c 25	US-PATENT-CLASS-156-620	N78-12390*	c 35	US-PATENT-CLASS-350-96R
		US-PATENT-CLASS-343-5CM			US-PATENT-4,046,617			US-PATENT-CLASS-356-169
		US-PATENT-CLASS-343-5DP			NASA-CASE-LAR-11898-1			US-PATENT-4,052,705
		US-PATENT-4,045,795			US-PATENT-APPL-SN-723264			NASA-CASE-NPO-13802-1
N77-32454*	c 35	US-PATENT-CLASS-428-116	N78-10225*	c 25	US-PATENT-CLASS-428-138	N78-13320*	c 33	US-PATENT-APPL-SN-658133
		US-PATENT-CLASS-428-73			US-PATENT-CLASS-428-902			US-PATENT-CLASS-264-23
		US-PATENT-CLASS-428-902			US-PATENT-4,052,523			US-PATENT-CLASS-264-345
		US-PATENT-CLASS-165-105			NASA-CASE-LEW-12137-1			US-PATENT-CLASS-65-DIG.4
N77-32455*	c 35	US-PATENT-4,046,190	N78-10375*	c 33	US-PATENT-CLASS-65-102	N78-13400*	c 35	US-PATENT-CLASS-65-DIG.7
		NASA-CASE-LEW-12050-1			US-PATENT-APPL-SN-672210			US-PATENT-CLASS-65-102
		US-PATENT-APPL-SN-629457			US-PATENT-CLASS-165-105			US-PATENT-CLASS-65-2
		US-PATENT-CLASS-136-202			US-PATENT-CLASS-431-158			US-PATENT-CLASS-65-32
N77-32456*	c 35	US-PATENT-CLASS-136-236R	N78-10376*	c 33	US-PATENT-CLASS-431-352	N78-13436*	c 37	US-PATENT-CLASS-65-4B
		US-PATENT-CLASS-136-240			US-PATENT-CLASS-60-39.51R			US-PATENT-CLASS-65-87
		US-PATENT-4,045,247			US-PATENT-CLASS-4,052,144			US-PATENT-CLASS-73-505
		NASA-CASE-NPO-13792-1			NASA-CASE-MSC-14831-1			US-PATENT-4,052,181
N77-32478*	c 36	US-PATENT-APPL-SN-677351	N78-10377*	c 33	US-PATENT-APPL-SN-685027	N78-14096*	c 24	NASA-CASE-MSC-14773-1
		US-PATENT-CLASS-324-57H			US-PATENT-CLASS-204-292			US-PATENT-APPL-SN-612966
		US-PATENT-CLASS-324-59			US-PATENT-CLASS-210-63R			US-PATENT-CLASS-137-197
		US-PATENT-4,045,728			US-PATENT-CLASS-210-71			US-PATENT-CLASS-210-222
N77-32499*	c 37	US-PATENT-CLASS-250-288	N78-10428*	c 35	US-PATENT-CLASS-252-472	N78-14104*	c 25	US-PATENT-CLASS-55-100
		US-PATENT-CLASS-73-421.5R			US-PATENT-CLASS-427-229			US-PATENT-CLASS-55-26-9
		US-PATENT-4,046,012			US-PATENT-4,052,302			US-PATENT-CLASS-55-3
		NASA-CASE-GSC-12143-1			NASA-CASE-MSC-14916-1			US-PATENT-CLASS-62-50
N77-32500*	c 37	US-PATENT-APPL-SN-743249	N78-10429*	c 35	US-PATENT-APPL-SN-739914	N78-14364*	c 35	US-PATENT-CLASS-62-514R
		US-PATENT-CLASS-250-288			US-PATENT-CLASS-179-107R			US-PATENT-4,027,494
		US-PATENT-CLASS-73-421.5R			US-PATENT-CLASS-179-175.1A			NASA-CASE-MFS-23274-1
		US-PATENT-4,046,012			US-PATENT-CLASS-330-2			US-PATENT-APPL-SN-714158
N77-32501*	c 37	US-PATENT-CLASS-308-195	N78-10467*	c 37	US-PATENT-CLASS-330-2	N78-14364*	c 35	US-PATENT-CLASS-307-306
		US-PATENT-CLASS-308-72			US-PATENT-4,049,930			US-PATENT-CLASS-338-325
		US-PATENT-4,046,434			US-PATENT-CLASS-318-200			US-PATENT-CLASS-357-4
		NASA-CASE-LEW-12527-1			US-PATENT-CLASS-318-227			US-PATENT-CLASS-357-5
N77-32501*	c 37	US-PATENT-APPL-SN-595747	N78-10468*	c 37	US-PATENT-4,052,648	N78-14364*	c 35	US-PATENT-CLASS-357-73
		US-PATENT-CLASS-290-52			NASA-CASE-NPO-13872-1			US-PATENT-4,055,847
		US-PATENT-CLASS-308-195			US-PATENT-APPL-SN-742034			NASA-CASE-ARC-10839-1
		US-PATENT-CLASS-308-72			US-PATENT-CLASS-363-57			US-PATENT-APPL-SN-643043
N77-32501*	c 37	US-PATENT-4,046,434	N78-10467*	c 37	US-PATENT-CLASS-363-89	N78-14364*	c 35	US-PATENT-CLASS-250-336
		NASA-CASE-LEW-12477-1			US-PATENT-4,052,659			US-PATENT-CLASS-250-343
		US-PATENT-APPL-SN-595745			NASA-CASE-MSC-14757-1			US-PATENT-CLASS-250-351
		US-PATENT-CLASS-290-52			US-PATENT-CLASS-318-227			US-PATENT-4,055,764
N77-32580*	c 44	US-PATENT-CLASS-308-195	N78-10429*	c 35	US-PATENT-CLASS-318-230	N78-13526*	c 44	NASA-CASE-ARC-10639-1
		US-PATENT-4,046,435			US-PATENT-4,052,648			US-PATENT-APPL-SN-643043
		NASA-CASE-NPO-13675-1			NASA-CASE-NPO-13872-1			US-PATENT-CLASS-250-336
		US-PATENT-APPL-SN-658132			US-PATENT-APPL-SN-742034			US-PATENT-CLASS-250-343
N77-32580*	c 44	US-PATENT-CLASS-204-157.1R	N78-10428*	c 35	US-PATENT-CLASS-363-57	N78-13526*	c 44	US-PATENT-CLASS-250-336
		US-PATENT-CLASS-250-527			US-PATENT-CLASS-363-89			US-PATENT-CLASS-250-343
		US-PATENT-4,045,315			US-PATENT-4,052,659			US-PATENT-CLASS-250-351
		NASA-CASE-NPO-13510-1			NASA-CASE-MSC-14757-1			US-PATENT-4,055,764
N77-32581*	c 44	US-PATENT-APPL-SN-536786	N78-10429*	c 35	US-PATENT-CLASS-318-227	N78-13526*	c 44	US-PATENT-CLASS-250-336
		US-PATENT-CLASS-126-263			US-PATENT-CLASS-318-230			US-PATENT-CLASS-250-343
		US-PATENT-CLASS-165-107			US-PATENT-4,052,648			US-PATENT-CLASS-250-351
		US-PATENT-CLASS-165-102			NASA-CASE-NPO-13772-1			US-PATENT-4,055,764
N77-32582*	c 44	US-PATENT-CLASS-62-4	N78-10467*	c 37	US-PATENT-APPL-SN-596641	N78-13526*	c 44	US-PATENT-CLASS-357-4
		US-PATENT-4,044,821			US-PATENT-CLASS-123-122E			US-PATENT-CLASS-357-5
		NASA-CASE-NPO-13810-1			US-PATENT-CLASS-123-41.33			US-PATENT-CLASS-357-30
		US-PATENT-APPL-SN-681096			US-PATENT-CLASS-137-104			US-PATENT-4,053,918
N77-32582*	c 44	US-PATENT-CLASS-126-270	N78-10467*	c 37	US-PATENT-CLASS-123-122E	N78-13874*	c 74	NASA-CASE-GSC-12088-1
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-123-41.33			US-PATENT-APPL-SN-648700
		US-PATENT-CLASS-52-117			US-PATENT-CLASS-137-104			US-PATENT-CLASS-356-103
		US-PATENT-CLASS-60-641			US-PATENT-CLASS-415-180			US-PATENT-CLASS-356-104
N77-32583*	c 44	US-PATENT-CLASS-60-641	N78-10429*	c 35	US-PATENT-CLASS-60-39.28R	N78-14096*	c 24	US-PATENT-CLASS-427-124
		US-PATENT-4,044,753			US-PATENT-CLASS-60-39.66			US-PATENT-CLASS-427-126
		NASA-CASE-NPO-13736-1			US-PATENT-4,041,697			US-PATENT-CLASS-427-248E
		US-PATENT-APPL-SN-681017			US-PATENT-CLASS-73-15.6			US-PATENT-CLASS-427-250
N77-32583*	c 44	US-PATENT-CLASS-350-295	N78-10468*	c 37	US-PATENT-CLASS-73-91	N78-14096*	c 24	US-PATENT-CLASS-427-255
		US-PATENT-CLASS-350-320			US-PATENT-4,041,697			US-PATENT-4,055,686
		US-PATENT-CLASS-427-130			NASA-CASE-LEW-12313-1			NASA-CASE-NPO-13482-1
		US-PATENT-CLASS-427-47			US-PATENT-APPL-SN-581751			US-PATENT-APPL-SN-495021
N77-32721*	c 54	US-PATENT-CLASS-52-2	N78-10493*	c 39	US-PATENT-CLASS-416-135	N78-14104*	c 25	US-PATENT-CLASS-136-89SJ
		US-PATENT-CLASS-52-2			US-PATENT-CLASS-416-141			US-PATENT-CLASS-357-15
		US-PATENT-4,046,462			US-PATENT-CLASS-416-220R			US-PATENT-CLASS-357-16
		NASA-CASE-ARC-10756-1			US-PATENT-CLASS-416-248			US-PATENT-CLASS-357-30
N77-32721*	c 54	US-PATENT-APPL-SN-436313	N78-10493*	c 39	US-PATENT-4,047,840	N78-14164*	c 27	US-PATENT-4,053,918
		US-PATENT-CLASS-2-2.1A			US-PATENT-APPL-SN-653682			NASA-CASE-GSC-12088-1
		US-PATENT-CLASS-214-1BC			US-PATENT-CLASS-73-15.6			US-PATENT-APPL-SN-648700
		US-PATENT-CLASS-214-1CM			US-PATENT-4,030,348			US-PATENT-CLASS-356-103
N77-32722*	c 54	US-PATENT-4,046,262	N78-10529*	c 43	US-PATENT-CLASS-324-58.5B	N78-14164*	c 27	US-PATENT-CLASS-356-104
		NASA-CASE-MSC-14771-1			US-PATENT-4,052,666			US-PATENT-4,053,229
		US-PATENT-APPL-SN-688854			NASA-CASE-NPO-13734-1			NASA-CASE-ARC-11042-1
		US-PATENT-CLASS-165-166			US-PATENT-APPL-SN-680939			US-PATENT-APPL-SN-734902
N77-32722*	c 54	US-PATENT-CLASS-55-179	N78-10554*	c 44	US-PATENT-CLASS-126-271	N78-14364*	c 35	US-PATENT-CLASS-252-8.1
		US-PATENT-CLASS-55-269			US-PATENT-CLASS-237-1A			US-PATENT-CLASS-60-836
		US-PATENT-4,046,529			US-PATENT-CLASS-350-293			US-PATENT-4,061,579
		US-PATENT-4,046,529			US-PATENT-CLASS-350-293			NASA-CASE-ARC-11046-1

N78-14380*	c 36	US-PATENT-CLASS-73-180	US-PATENT-CLASS-350-1	US-PATENT-CLASS-260-77.5AT
		US-PATENT-4.061,029	US-PATENT-CLASS-428-334	US-PATENT-CLASS-260-77.55P
		NASA-CASE-MFS-19259-1	US-PATENT-CLASS-428-336	US-PATENT-4.069,212
		US-PATENT-APPL-SN-732630	US-PATENT-CLASS-428-426	N78-17214* c 27 NASA-CASE-NPO-10557
		US-PATENT-CLASS-250-571	US-PATENT-CLASS-428-428	US-PATENT-APPL-SN-759220
N78-14452*	c 43	US-PATENT-CLASS-356-159	US-PATENT-4.062,996	US-PATENT-CLASS-260-67
		US-PATENT-CLASS-356-160	N78-15880* c 74 NASA-CASE-MFS-22409-2	US-PATENT-3.538,053
		US-PATENT-CLASS-356-199	US-PATENT-APPL-SN-445398	N78-17215* c 27 NASA-CASE-NPO-13764-1
		US-PATENT-4.061,427	US-PATENT-APPL-SN-636193	US-PATENT-APPL-SN-674194
		NASA-CASE-LEW-12217-1	US-PATENT-CLASS-250-272	US-PATENT-CLASS-128-92C
N78-14625*	c 44	US-PATENT-APPL-SN-763753	US-PATENT-CLASS-250-320	US-PATENT-CLASS-128-92G
		US-PATENT-CLASS-166-248	US-PATENT-4.063,088	US-PATENT-CLASS-260-42.17
		US-PATENT-CLASS-166-259	N78-16369* c 37 NASA-CASE-NPO-13619-1	US-PATENT-CLASS-3-1.9
		US-PATENT-4.061,190	US-PATENT-APPL-SN-572990	US-PATENT-4.064,566
		NASA-CASE-LEW-12039-1	US-PATENT-CLASS-185-38	N78-17237* c 31 NASA-CASE-LEW-11981-1
N78-14773*	c 52	US-PATENT-APPL-SN-687822	US-PATENT-CLASS-74-81	US-PATENT-APPL-SN-672220
		US-PATENT-CLASS-320-15	US-PATENT-CLASS-74-83	US-PATENT-CLASS-313-22
		US-PATENT-CLASS-320-18	US-PATENT-4.062,245	US-PATENT-CLASS-62-376
		US-PATENT-CLASS-320-40	N78-16387* c 39 NASA-CASE-LAR-11490-1	US-PATENT-CLASS-62-514R
		US-PATENT-CLASS-320-6	US-PATENT-APPL-SN-707125	US-PATENT-4.068,495
N78-14773*	c 52	US-PATENT-4.061,955	US-PATENT-CLASS-358-106	N78-17238* c 31 NASA-CASE-NPO-11978
		NASA-CASE-LEW-12668-1	US-PATENT-4.063,282	US-PATENT-APPL-SN-264268
		US-PATENT-APPL-SN-677353	N78-17031* c 04 NASA-CASE-XNP-01458	US-PATENT-CLASS-313-175
		US-PATENT-CLASS-128-305	US-PATENT-APPL-SN-160093	US-PATENT-CLASS-313-176
		US-PATENT-4.061,146	US-PATENT-CLASS-235-70	US-PATENT-CLASS-313-180
N78-14784*	c 54	NASA-CASE-MSC-14632-1	US-PATENT-3.229,905	US-PATENT-CLASS-313-184
		US-PATENT-APPL-SN-571459	N78-17055* c 07 NASA-CASE-LEW-12317-1	US-PATENT-CLASS-313-224
		US-PATENT-CLASS-204-180P	US-PATENT-APPL-SN-581750	US-PATENT-3.769,544
		US-PATENT-CLASS-204-301	US-PATENT-CLASS-60-204	N78-17293* c 33 NASA-CASE-XLE-06094
		US-PATENT-CLASS-210-192	US-PATENT-CLASS-60-226R	US-PATENT-APPL-SN-523632
N78-14867*	c 71	US-PATENT-CLASS-210-96M	US-PATENT-CLASS-60-271	US-PATENT-CLASS-315-22
		US-PATENT-CLASS-23-253A	US-PATENT-4.068,469	US-PATENT-3.423,627
		US-PATENT-4.061,570	N78-17056* c 07 NASA-CASE-LEW-12390-1	N78-17294* c 33 NASA-CASE-MSC-11235
		NASA-CASE-LAR-12106-1	US-PATENT-APPL-SN-522109	US-PATENT-APPL-SN-698239
		US-PATENT-APPL-SN-740156	US-PATENT-CLASS-60-226R	US-PATENT-CLASS-307-270
N78-14889*	c 74	US-PATENT-CLASS-330-52	US-PATENT-CLASS-74-385	US-PATENT-CLASS-307-297
		US-PATENT-CLASS-73-646	US-PATENT-CLASS-74-417	US-PATENT-CLASS-323-4
		US-PATENT-4.061,041	US-PATENT-4.068,470	US-PATENT-CLASS-328-172
		NASA-CASE-KSC-11047-1	N78-17140* c 17 NASA-CASE-HON-10880-1	US-PATENT-3.573,504
		US-PATENT-APPL-SN-715485	US-PATENT-APPL-SN-595254	N78-17295* c 33 NASA-CASE-XGS-09186
N78-15180*	c 24	US-PATENT-CLASS-179-91R	US-PATENT-CLASS-325-118	US-PATENT-APPL-SN-669911
		US-PATENT-CLASS-250-199	US-PATENT-CLASS-325-66	US-PATENT-CLASS-323-18
		US-PATENT-CLASS-358-142	US-PATENT-CLASS-343-112R	US-PATENT-3.475,675
		US-PATENT-4.061,577	US-PATENT-CLASS-343-225	N78-17296* c 33 NASA-CASE-GSC-10135
		NASA-CASE-ARC-10913-1	US-PATENT-CLASS-362-269	US-PATENT-APPL-SN-764823
N78-15210*	c 25	US-PATENT-APPL-SN-698646	US-PATENT-4.067,015	US-PATENT-CLASS-307-53
		US-PATENT-CLASS-106-15FP	N78-17149* c 24 NASA-CASE-LAR-11898-2	US-PATENT-CLASS-307-69
		US-PATENT-CLASS-260-2.5N	US-PATENT-APPL-SN-723264	US-PATENT-CLASS-320-53
		US-PATENT-CLASS-260-2.5R	US-PATENT-APPL-SN-799024	US-PATENT-CLASS-323-19
		US-PATENT-CLASS-428-117	US-PATENT-CLASS-156-245	US-PATENT-3.600,599
N78-15276*	c 27	US-PATENT-CLASS-428-290	US-PATENT-CLASS-156-285	N78-17335* c 34 NASA-CASE-LEW-12508-1
		US-PATENT-CLASS-428-71	US-PATENT-CLASS-156-289	US-PATENT-APPL-SN-746580
		US-PATENT-CLASS-428-73	US-PATENT-CLASS-428-116	US-PATENT-CLASS-62-3
		US-PATENT-CLASS-428-920	US-PATENT-CLASS-428-902	US-PATENT-4.069,028
		US-PATENT-4.061,812	US-PATENT-4.063,981	N78-17336* c 34 NASA-CASE-ARC-10198
N78-15276*	c 27	NASA-CASE-LAR-12046-1	N78-17150* c 24 NASA-CASE-LAR-12019-1	US-PATENT-APPL-SN-42088
		US-PATENT-APPL-SN-755310	US-PATENT-APPL-SN-792067	US-PATENT-CLASS-165-105
		US-PATENT-CLASS-23-230PC	US-PATENT-CLASS-156-154	US-PATENT-CLASS-165-134
		US-PATENT-CLASS-23-232E	US-PATENT-CLASS-156-264	US-PATENT-3.777,811
		US-PATENT-CLASS-23-232R	US-PATENT-CLASS-156-285	N78-17337* c 34 NASA-CASE-ARC-10199
N78-15323*	c 32	US-PATENT-CLASS-73-23	US-PATENT-CLASS-156-286	US-PATENT-APPL-SN-824628
		US-PATENT-4.062,650	US-PATENT-CLASS-156-289	US-PATENT-CLASS-165-105
		NASA-CASE-LEW-12053-1	US-PATENT-CLASS-156-300	US-PATENT-CLASS-165-32
		US-PATENT-APPL-SN-513613	US-PATENT-CLASS-156-306	US-PATENT-CLASS-165-96
		US-PATENT-CLASS-260-2R	US-PATENT-CLASS-156-311	US-PATENT-CLASS-2-2.1
N78-15461*	c 35	US-PATENT-CLASS-526-193	US-PATENT-CLASS-264-157	US-PATENT-3.543,839
		US-PATENT-CLASS-526-225	US-PATENT-CLASS-264-90	N78-17357* c 35 NASA-CASE-MFS-23194-1
		US-PATENT-CLASS-544-193	US-PATENT-CLASS-428-294	US-PATENT-APPL-SN-629458
		US-PATENT-4.061,856	US-PATENT-CLASS-428-302	US-PATENT-CLASS-350-3.5
		NASA-CASE-NPO-13836-1	US-PATENT-4.065,340	US-PATENT-4.065,202
N78-15512*	c 39	US-PATENT-APPL-SN-699002	N78-17205* c 27 NASA-CASE-LAR-12181-1	N78-17358* c 35 NASA-CASE-MSC-11242
		US-PATENT-CLASS-178-69.1	US-PATENT-APPL-SN-532784	US-PATENT-APPL-SN-636796
		US-PATENT-CLASS-325-58	US-PATENT-APPL-SN-734901	US-PATENT-CLASS-73-67.2
		US-PATENT-CLASS-325-63	US-PATENT-CLASS-156-309	US-PATENT-3.492,858
		US-PATENT-CLASS-343-179	US-PATENT-CLASS-156-331	N78-17359* c 35 NASA-CASE-NPO-11150
N78-15560*	c 44	US-PATENT-4.061,974	US-PATENT-CLASS-260-30.4N	US-PATENT-APPL-SN-858950
		NASA-CASE-NPO-13808-1	US-PATENT-CLASS-260-32.2R	US-PATENT-CLASS-338-100
		US-PATENT-APPL-SN-675328	US-PATENT-CLASS-260-32.6NT	US-PATENT-CLASS-338-36
		US-PATENT-CLASS-250-322	US-PATENT-CLASS-260-33.4R	US-PATENT-CLASS-338-99
		US-PATENT-CLASS-250-416TV	US-PATENT-4.065,345	US-PATENT-3.641,470
N78-15579*	c 74	US-PATENT-4.063,092	N78-17206* c 27 NASA-CASE-LAR-11902-1	N78-17366* c 36 NASA-CASE-MFS-22597
		NASA-CASE-LAR-12016-1	US-PATENT-APPL-SN-672695	US-PATENT-APPL-SN-395895
		US-PATENT-APPL-SN-754066	US-PATENT-CLASS-106-43	US-PATENT-CLASS-315-108
		US-PATENT-CLASS-73-579	US-PATENT-CLASS-60-200A	US-PATENT-CLASS-331-94.5G
		US-PATENT-CLASS-73-630	US-PATENT-CLASS-75-229	US-PATENT-CLASS-331-94.5T
N78-15580*	c 74	US-PATENT-CLASS-73-88F	US-PATENT-CLASS-75-239	US-PATENT-3.882,417
		US-PATENT-4.062,227	US-PATENT-CLASS-75-241	N78-17383* c 37 NASA-CASE-MSC-19666-1
		NASA-CASE-LAR-12009-1	US-PATENT-4.067,742	US-PATENT-APPL-SN-721150
		US-PATENT-APPL-SN-717320	N78-17213* c 27 NASA-CASE-MSC-14331-2	US-PATENT-CLASS-118-50
		US-PATENT-CLASS-126-270	US-PATENT-APPL-SN-657907	US-PATENT-CLASS-118-500
N78-15580*	c 74	US-PATENT-CLASS-126-400	US-PATENT-CLASS-260-75NH	US-PATENT-CLASS-248-36.3
		US-PATENT-CLASS-237-1A	US-PATENT-CLASS-260-75NK	US-PATENT-CLASS-269-21
		US-PATENT-4.062,347	US-PATENT-CLASS-260-75NT	US-PATENT-CLASS-279-3
		NASA-CASE-LAR-10385-3	US-PATENT-CLASS-260-77.5AM	US-PATENT-CLASS-51-235
		US-PATENT-APPL-SN-370999	US-PATENT-CLASS-260-77.5AN	US-PATENT-4.066,039
N78-15580*	c 74	US-PATENT-APPL-SN-38816	US-PATENT-CLASS-260-77.5AP	N78-17384* c 37 NASA-CASE-LEW-12916-1

		US-PATENT-APPL-SN-583056			US-PATENT-4,055,041			US-PATENT-APPL-SN-560891
		US-PATENT-CLASS-60-261			NASA-CASE-LEW-12917-1			US-PATENT-CLASS-176-39
		US-PATENT-CLASS-60-262	N78-18067*	c 07	US-PATENT-APPL-SN-583055			US-PATENT-CLASS-330-4.3
		US-PATENT-CLASS-60-271			US-PATENT-CLASS-60-204			US-PATENT-4,075,057
		US-PATENT-4,064,692			US-PATENT-CLASS-60-262	N78-24275*	c 20	NASA-CASE-LAR-12018-1
N78-17385*	c 37	NASA-CASE-WOO-00625			US-PATENT-4,069,661			US-PATENT-APPL-SN-678520
		US-PATENT-APPL-SN-362278	N78-18083*	c 09	NASA-CASE-ARC-10903-1			US-PATENT-CLASS-102-39
		US-PATENT-CLASS-74-800			US-PATENT-APPL-SN-623536			US-PATENT-CLASS-102-49.7
		US-PATENT-3,306,134			US-PATENT-CLASS-35-12N			US-PATENT-CLASS-102-70R
N78-17386*	c 37	NASA-CASE-NPO-10151			US-PATENT-CLASS-358-104			US-PATENT-CLASS-285-192
		US-PATENT-APPL-SN-365244			US-PATENT-4,055,004			US-PATENT-CLASS-60-39.82E
		US-PATENT-CLASS-328-233	N78-18182*	c 26	NASA-CASE-LEW-12095-1			US-PATENT-4,080,901
		US-PATENT-3,387,218			US-PATENT-APPL-SN-651009	N78-24290*	c 24	NASA-CASE-MFS-23506-1
N78-17395*	c 38	NASA-CASE-NPO-13283			US-PATENT-CLASS-75-124			US-PATENT-APPL-SN-760809
		US-PATENT-APPL-SN-401225			US-PATENT-CLASS-75-126D			US-PATENT-CLASS-260-2.5AK
		US-PATENT-CLASS-235-151.3			US-PATENT-CLASS-75-126F			US-PATENT-CLASS-260-2.5AP
		US-PATENT-CLASS-235-156			US-PATENT-CLASS-75-128G			US-PATENT-CLASS-260-2.5B
		US-PATENT-CLASS-235-181			US-PATENT-CLASS-75-128T			US-PATENT-CLASS-260-2.5BE
		US-PATENT-CLASS-250-572			US-PATENT-4,055,416			US-PATENT-CLASS-260-2.5EP
		US-PATENT-CLASS-356-237	N78-18183*	c 26	NASA-CASE-LEW-12905-1			US-PATENT-CLASS-260-2.5FP
		US-PATENT-3,908,118			US-PATENT-APPL-SN-684171			US-PATENT-CLASS-260-29.1R
N78-17396*	c 38	NASA-CASE-NPO-13282			US-PATENT-CLASS-148-32			US-PATENT-CLASS-260-37EP
		US-PATENT-APPL-SN-401224			US-PATENT-CLASS-148-32.5			US-PATENT-CLASS-427-427
		US-PATENT-CLASS-235-151.3			US-PATENT-CLASS-75-170			US-PATENT-4,077,921
		US-PATENT-CLASS-235-156			US-PATENT-4,055,447	N78-24333*	c 26	NASA-CASE-MSC-19693-1
		US-PATENT-CLASS-250-563	N78-18308*	c 33	NASA-CASE-FRC-10090-1			US-PATENT-APPL-SN-708771
		US-PATENT-CLASS-250-572			US-PATENT-APPL-SN-737974			US-PATENT-CLASS-148-12.7A
		US-PATENT-CLASS-356-165			US-PATENT-CLASS-307-265			US-PATENT-CLASS-148-125
		US-PATENT-CLASS-356-237			US-PATENT-CLASS-307-350			US-PATENT-4,077,813
		US-PATENT-3,909,602			US-PATENT-CLASS-307-360	N78-24365*	c 28	NASA-CASE-LEW-12081-1
N78-17460*	c 44	NASA-CASE-NPO-13579-1			US-PATENT-CLASS-328-150			US-PATENT-APPL-SN-676432
		US-PATENT-APPL-SN-598969			US-PATENT-4,055,777			US-PATENT-CLASS-250-492R
		US-PATENT-CLASS-126-263	N78-18355*	c 34	NASA-CASE-LEW-12554-1			US-PATENT-CLASS-34-15
		US-PATENT-CLASS-126-271			US-PATENT-APPL-SN-686449			US-PATENT-CLASS-423-648R
		US-PATENT-CLASS-165-2			US-PATENT-CLASS-427-34			US-PATENT-CLASS-62-100
		US-PATENT-CLASS-237-1A			US-PATENT-CLASS-427-405			US-PATENT-CLASS-62-48
		US-PATENT-CLASS-60-641			US-PATENT-CLASS-427-419A			US-PATENT-4,077,788
		US-PATENT-CLASS-62-4			US-PATENT-CLASS-427-423	N78-24391*	c 32	NASA-CASE-NPO-13886-1
		US-PATENT-4,065,053			US-PATENT-CLASS-428-633			US-PATENT-APPL-SN-730045
N78-17675*	c 54	NASA-CASE-ARC-11101-1			US-PATENT-CLASS-428-652			US-PATENT-CLASS-307-151
		US-PATENT-APPL-SN-753976			US-PATENT-CLASS-428-667			US-PATENT-CLASS-343-700MS
		US-PATENT-CLASS-2-2.1A			US-PATENT-4,055,705			US-PATENT-CLASS-361-395
		US-PATENT-CLASS-36-119	N78-18390*	c 35	NASA-CASE-MFS-23008-1			US-PATENT-4,079,268
		US-PATENT-CLASS-36-92			US-PATENT-APPL-SN-665734	N78-24515*	c 35	NASA-CASE-LAR-11201-1
		US-PATENT-4,064,642			US-PATENT-CLASS-73-DIG.11			US-PATENT-APPL-SN-788705
N78-17676*	c 54	NASA-CASE-MFS-23311-1			US-PATENT-CLASS-73-28			US-PATENT-CLASS-416-144
		US-PATENT-APPL-SN-708800			US-PATENT-CLASS-73-432PS			US-PATENT-CLASS-416-61
		US-PATENT-CLASS-214-1CM			US-PATENT-CLASS-73-432R			US-PATENT-CLASS-73-456
		US-PATENT-CLASS-3-12.5			US-PATENT-4,055,089			US-PATENT-CLASS-73-756
		US-PATENT-CLASS-74-515E	N78-18391*	c 35	NASA-CASE-NPO-13687-1			US-PATENT-4,082,001
		US-PATENT-4,068,763			US-PATENT-APPL-SN-641803	N78-24544*	c 37	NASA-CASE-MSC-16000-1
N78-17677*	c 54	NASA-CASE-MSC-13054			US-PATENT-CLASS-356-106S			US-PATENT-APPL-SN-739915
		US-PATENT-APPL-SN-585217			US-PATENT-CLASS-356-110			US-PATENT-CLASS-29-156.8R
		US-PATENT-CLASS-2-161			US-PATENT-4,053,231			US-PATENT-CLASS-29-23.5
		US-PATENT-3,490,074	N78-18395* #	c 35	NASA-CASE-NPO-13999-1			US-PATENT-CLASS-29-244
N78-17678*	c 54	NASA-CASE-XMS-04670			US-PATENT-APPL-SN-858596			US-PATENT-CLASS-29-252
		US-PATENT-APPL-SN-535169	N78-18410*	c 36	NASA-CASE-NPO-13801-1			US-PATENT-4,078,290
		US-PATENT-CLASS-2-2.1			US-PATENT-APPL-SN-708796	N78-24545*	c 37	NASA-CASE-LEW-12785-1
		US-PATENT-3,488,771			US-PATENT-CLASS-330-4			US-PATENT-APPL-SN-739909
N78-17679*	c 54	NASA-CASE-XMS-04928			US-PATENT-CLASS-332-7.5			US-PATENT-CLASS-60-39.28R
		US-PATENT-APPL-SN-584914			US-PATENT-4,055,810			US-PATENT-4,078,378
		US-PATENT-CLASS-98-1	N78-18761*	c 54	NASA-CASE-MSC-10954-1			N78-24608*
		US-PATENT-3,487,765			US-PATENT-APPL-SN-529884			c 44
N78-17680*	c 54	NASA-CASE-XMS-09653			US-PATENT-CLASS-2-2.1			NASA-CASE-GSC-12030-1
		US-PATENT-APPL-SN-538863			US-PATENT-3,514,785			US-PATENT-APPL-SN-710035
		US-PATENT-CLASS-2-6	N78-18905*	c 74	NASA-CASE-GSC-12010-1			US-PATENT-CLASS-308-10
		US-PATENT-3,359,568			US-PATENT-APPL-SN-680958			US-PATENT-CLASS-310-153
N78-17691*	c 60	NASA-CASE-GSC-12044-1			US-PATENT-CLASS-250-213VT			US-PATENT-CLASS-310-154
		US-PATENT-APPL-SN-631341			US-PATENT-CLASS-313-442			US-PATENT-CLASS-310-178
		US-PATENT-CLASS-340-347DD			US-PATENT-CLASS-313-94			US-PATENT-CLASS-310-269
		US-PATENT-4,069,478			US-PATENT-4,070,574	N78-24609*	c 44	US-PATENT-4,077,678
N78-17865*	c 74	NASA-CASE-MSC-12618-1			NASA-CASE-NPO-13690-1			NASA-CASE-GSC-12022-2
		US-PATENT-APPL-SN-651007	N78-19302*	c 27	US-PATENT-APPL-SN-633876			US-PATENT-APPL-SN-693074
		US-PATENT-CLASS-350-159			US-PATENT-CLASS-106-39.5			US-PATENT-CLASS-136-89SG
		US-PATENT-CLASS-358-225			US-PATENT-CLASS-106-65			US-PATENT-CLASS-148-174
		US-PATENT-CLASS-358-41			US-PATENT-CLASS-106-73.5			US-PATENT-CLASS-29-572
		US-PATENT-CLASS-358-55			US-PATENT-4,072,532			US-PATENT-CLASS-357-30
		US-PATENT-4,067,043	N78-19465*	c 35	NASA-CASE-ARC-10896-1			US-PATENT-CLASS-357-59
N78-17866*	c 74	NASA-CASE-LAR-11711-1			US-PATENT-APPL-SN-615030			US-PATENT-CLASS-427-113
		US-PATENT-APPL-SN-674195			US-PATENT-CLASS-73-23			US-PATENT-CLASS-427-248J
		US-PATENT-CLASS-250-201			US-PATENT-4,055,072			US-PATENT-CLASS-427-249
		US-PATENT-CLASS-350-204	N78-19466*	c 35	NASA-CASE-ARC-10820-1			US-PATENT-CLASS-427-86
		US-PATENT-CLASS-356-28			US-PATENT-APPL-SN-620675	N78-24950*	c 76	US-PATENT-4,077,818
		US-PATENT-4,063,814			US-PATENT-CLASS-119-51.11			NASA-CASE-MFS-23315-1
N78-17867*	c 74	NASA-CASE-NPO-13759-1			US-PATENT-CLASS-119-72.5			US-PATENT-APPL-SN-724874
		US-PATENT-APPL-SN-718266			US-PATENT-CLASS-137-624.11			US-PATENT-CLASS-250-277CH
		US-PATENT-CLASS-250-344			US-PATENT-4,055,147			US-PATENT-CLASS-250-280
		US-PATENT-CLASS-356-204	N78-19599*	c 44	NASA-CASE-LEW-12159-1			US-PATENT-4,078,175
		US-PATENT-CLASS-356-246			US-PATENT-APPL-SN-643041			N78-25089*
		US-PATENT-4,067,653			US-PATENT-CLASS-126-270			c 07
N78-18066*	c 07	NASA-CASE-LEW-12389-2			US-PATENT-CLASS-427-160			NASA-CASE-LEW-12452-1
		US-PATENT-APPL-SN-628221			US-PATENT-CLASS-428-652			US-PATENT-APPL-SN-695513
		US-PATENT-CLASS-244-53A			US-PATENT-CLASS-428-667	N78-25090*	c 07	US-PATENT-CLASS-60-226R
		US-PATENT-CLASS-244-54			US-PATENT-CLASS-428-679			US-PATENT-CLASS-60-39.52
		US-PATENT-CLASS-60-226R			US-PATENT-4,055,707			US-PATENT-4,083,181
		US-PATENT-CLASS-60-39.31	N78-19920*	c 73	NASA-CASE-HQN-10841-1			NASA-CASE-LEW-11855-1
								US-PATENT-APPL-SN-672222
								US-PATENT-CLASS-277-134
								US-PATENT-CLASS-277-25
								US-PATENT-4,084,825

N78-31735

N78-25119*	c 15	NASA-CASE-MFS-23564-1 US-PATENT-APPL-SN-739908 US-PATENT-CLASS-244-161 US-PATENT-CLASS-244-167 US-PATENT-4,083,520	N78-27176* #	c 20	NASA-CASE-MFS-23642-2 US-PATENT-APPL-SN-923758	N78-28594*	c 44	NASA-CASE-NPO-13821-1 US-PATENT-APPL-SN-688852 US-PATENT-CLASS-343-113R US-PATENT-CLASS-343-113R US-PATENT-CLASS-343-16M US-PATENT-4,088,999
N78-25148*	c 25	NASA-CASE-LEW-12465-1 US-PATENT-APPL-SN-692413 US-PATENT-CLASS-250-423P US-PATENT-CLASS-250-528 US-PATENT-CLASS-250-531 US-PATENT-CLASS-55-100 US-PATENT-CLASS-55-101 US-PATENT-CLASS-55-2 US-PATENT-4,085,332	N78-27180*	c 24	NASA-CASE-ARC-11043-1 US-PATENT-APPL-SN-753964 US-PATENT-CLASS-260-33.6EP US-PATENT-CLASS-260-33.6PQ US-PATENT-CLASS-260-33.8EP US-PATENT-CLASS-260-33.8UA US-PATENT-CLASS-260-37EP US-PATENT-CLASS-260-42.43 US-PATENT-CLASS-260-45.7R US-PATENT-CLASS-260-45.75W US-PATENT-CLASS-260-45.85N US-PATENT-CLASS-260-45.9R US-PATENT-CLASS-427-386 US-PATENT-CLASS-427-388A US-PATENT-CLASS-428-313 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-921 US-PATENT-4,088,806	N78-28913*	c 73	NASA-CASE-NPO-13114-2 US-PATENT-APPL-SN-294738 US-PATENT-APPL-SN-634214 US-PATENT-CLASS-176-22 US-PATENT-CLASS-176-33 US-PATENT-CLASS-176-39 US-PATENT-4,085,004
N78-25256*	c 31	NASA-CASE-NPO-13839-1 US-PATENT-APPL-SN-712981 US-PATENT-CLASS-250-332 US-PATENT-CLASS-313-22 US-PATENT-CLASS-62-514R US-PATENT-4,077,231	N78-27184* #	c 24	NASA-CASE-ARC-11040-2 US-PATENT-APPL-SN-920878	N78-29421*	c 35	NASA-CASE-NPO-11954-1 US-PATENT-APPL-SN-229287 US-PATENT-CLASS-179-100.2CH US-PATENT-CLASS-340-174.1M US-PATENT-CLASS-340-174YC US-PATENT-CLASS-350-151 US-PATENT-3,775,570
N78-25319*	c 33	NASA-CASE-NPO-13909-1 US-PATENT-APPL-SN-744477 US-PATENT-CLASS-324-57DE US-PATENT-CLASS-324-57SS US-PATENT-CLASS-324-58A US-PATENT-4,084,132	N78-27226*	c 25	NASA-CASE-LEW-10518-3 US-PATENT-APPL-SN-394207 US-PATENT-CLASS-176-11 US-PATENT-CLASS-176-16 US-PATENT-CLASS-250-400 US-PATENT-CLASS-250-429 US-PATENT-CLASS-250-492B US-PATENT-4,088,532	N78-31129*	c 09	NASA-CASE-MSC-19706-1 US-PATENT-APPL-SN-767911 US-PATENT-CLASS-239-265.25 US-PATENT-CLASS-73-147 US-PATENT-4,091,665
N78-25350*	c 34	NASA-CASE-MSC-19568-1 US-PATENT-APPL-SN-681000 US-PATENT-CLASS-428-913 US-PATENT-CLASS-428-93 US-PATENT-CLASS-428-94 US-PATENT-CLASS-428-95 US-PATENT-CLASS-428-96 US-PATENT-CLASS-428-97 US-PATENT-CLASS-49-DIG.1 US-PATENT-CLASS-49-479 US-PATENT-CLASS-49-485 US-PATENT-4,078,110	N78-27326*	c 33	NASA-CASE-MFS-23312-1 US-PATENT-APPL-SN-699012 US-PATENT-CLASS-29-571 US-PATENT-CLASS-29-578 US-PATENT-CLASS-357-91 US-PATENT-4,087,902	N78-31232*	c 27	NASA-CASE-ARC-11008-1 US-PATENT-APPL-SN-708951 US-PATENT-CLASS-260-2.5N US-PATENT-CLASS-260-47CP US-PATENT-CLASS-260-63N US-PATENT-CLASS-260-78.41 US-PATENT-4,092,274
N78-25351*	c 34	NASA-CASE-LEW-12718-1 US-PATENT-APPL-SN-779428 US-PATENT-CLASS-137-484.2 US-PATENT-CLASS-137-501 US-PATENT-CLASS-137-505.16 US-PATENT-4,084,612	N78-27357*	c 34	NASA-CASE-LEW-11877-1 US-PATENT-APPL-SN-708660 US-PATENT-CLASS-431-10 US-PATENT-CLASS-431-328 US-PATENT-CLASS-431-7 US-PATENT-CLASS-60-39.65 US-PATENT-CLASS-60-39.69R US-PATENT-4,087,962	N78-31233*	c 27	NASA-CASE-ARC-11057-1 US-PATENT-APPL-SN-807762 US-PATENT-CLASS-350-165 US-PATENT-CLASS-350-175NG US-PATENT-CLASS-427-164 US-PATENT-CLASS-427-40 US-PATENT-CLASS-427-41 US-PATENT-CLASS-428-411 US-PATENT-CLASS-428-412 US-PATENT-CLASS-428-422 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-515 US-PATENT-CLASS-428-523 US-PATENT-CLASS-428-538 US-PATENT-4,091,166
N78-25391*	c 35	NASA-CASE-NPO-13948-1 US-PATENT-APPL-SN-752748 US-PATENT-CLASS-204-195W US-PATENT-CLASS-73-336.5 US-PATENT-4,083,765	N78-27384*	c 35	NASA-CASE-LAR-11973-1 US-PATENT-APPL-SN-821681 US-PATENT-CLASS-73-170A US-PATENT-CLASS-73-425.4R US-PATENT-CLASS-73-61R US-PATENT-4,089,209	N78-31255*	c 28	NASA-CASE-NPO-14103-1 US-PATENT-APPL-SN-797210 US-PATENT-CLASS-149-105 US-PATENT-CLASS-149-111 US-PATENT-CLASS-149-19.4 US-PATENT-CLASS-149-19.8 US-PATENT-CLASS-149-88 US-PATENT-CLASS-149-92 US-PATENT-CLASS-149-93 US-PATENT-4,092,188
N78-25426*	c 37	NASA-CASE-MSC-12731-1 US-PATENT-APPL-SN-690816 US-PATENT-CLASS-137-505.25 US-PATENT-CLASS-137-625.3 US-PATENT-CLASS-137-625.38 US-PATENT-4,083,380	N78-27402*	c 36	NASA-CASE-NPO-13945-1 US-PATENT-APPL-SN-704180 US-PATENT-CLASS-331-94.5G US-PATENT-CLASS-331-94.5P US-PATENT-CLASS-331-94.5PE US-PATENT-4,088,965	N78-31321*	c 32	NASA-CASE-NPO-14022-1 US-PATENT-APPL-SN-780728 US-PATENT-CLASS-343-781CA US-PATENT-CLASS-343-782 US-PATENT-CLASS-343-837 US-PATENT-4,092,648
N78-25527*	c 44	NASA-CASE-LEW-12552-1 US-PATENT-APPL-SN-770869 US-PATENT-CLASS-136-89CC US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-65 US-PATENT-CLASS-357-67 US-PATENT-CLASS-427-261 US-PATENT-CLASS-427-75 US-PATENT-4,082,569	N78-27423*	c 37	NASA-CASE-MSC-16270-1 US-PATENT-APPL-SN-837260 US-PATENT-CLASS-269-21 US-PATENT-CLASS-269-266 US-PATENT-4,088,312	N78-31321*	c 32	NASA-CASE-NPO-14022-1 US-PATENT-APPL-SN-780728 US-PATENT-CLASS-343-781CA US-PATENT-CLASS-343-782 US-PATENT-CLASS-343-837 US-PATENT-4,092,648
N78-25528*	c 44	NASA-CASE-LEW-12185-1 US-PATENT-APPL-SN-746269 US-PATENT-CLASS-136-89H US-PATENT-CLASS-136-89P US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-628 US-PATENT-4,083,097	N78-27424*	c 37	NASA-CASE-LAR-11889-2 US-PATENT-APPL-SN-662182 US-PATENT-APPL-SN-807703 US-PATENT-CLASS-308-10 US-PATENT-CLASS-73-178R US-PATENT-4,088,018	N78-31426*	c 37	NASA-CASE-GSC-11883-2 US-PATENT-APPL-SN-596787 US-PATENT-APPL-SN-747675 US-PATENT-CLASS-60-527 US-PATENT-CLASS-74-100R US-PATENT-4,010,455 US-PATENT-4,092,874
N78-25529*	c 44	NASA-CASE-LEW-12541-1 US-PATENT-APPL-SN-790637 US-PATENT-CLASS-136-89CC US-PATENT-CLASS-136-89H US-PATENT-CLASS-136-89P US-PATENT-CLASS-156-633 US-PATENT-CLASS-29-572 US-PATENT-4,084,985	N78-27425*	c 37	NASA-CASE-ARC-10981-1 US-PATENT-APPL-SN-738218 US-PATENT-CLASS-248-178 US-PATENT-CLASS-248-186 US-PATENT-4,088,291	N78-31525*	c 44	NASA-CASE-NPO-13581-2 US-PATENT-APPL-SN-590975 US-PATENT-APPL-SN-811815 US-PATENT-CLASS-126-271 US-PATENT-CLASS-237-1A US-PATENT-4,091,800
N78-25530*	c 44	NASA-CASE-LEW-12649-1 US-PATENT-APPL-SN-720521 US-PATENT-CLASS-427-385B US-PATENT-CLASS-427-385C US-PATENT-CLASS-429-254 US-PATENT-4,085,241	N78-27733*	c 51	NASA-CASE-ARC-10917-1 US-PATENT-APPL-SN-672223 US-PATENT-CLASS-119-29 US-PATENT-4,088,094	N78-31526*	c 44	NASA-CASE-NPO-13813-1 NASA-CASE-NPO-13914-1 US-PATENT-APPL-SN-765139 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-350-299 US-PATENT-4,091,798
N78-25531*	c 44	NASA-CASE-MFS-23270-1 US-PATENT-APPL-SN-744573 US-PATENT-CLASS-320-13 US-PATENT-CLASS-320-15 US-PATENT-CLASS-320-32 US-PATENT-CLASS-320-39 US-PATENT-CLASS-320-9 US-PATENT-4,084,124	N78-27904*	c 74	NASA-CASE-LAR-11869-1 US-PATENT-APPL-SN-740155 US-PATENT-CLASS-356-120 US-PATENT-CLASS-356-167 US-PATENT-4,088,408	N78-31527*	c 44	NASA-CASE-NPO-13937-1 US-PATENT-APPL-SN-718137 US-PATENT-CLASS-201-17 US-PATENT-CLASS-44-1R US-PATENT-CLASS-44-2 US-PATENT-4,081,250
N78-27121*	c 07	NASA-CASE-LAR-11919-1 US-PATENT-APPL-SN-672221	N78-28411*	c 35	NASA-CASE-KSC-11035-1 US-PATENT-4,088,926	N78-31735*	c 54	NASA-CASE-ARC-11058-1 US-PATENT-APPL-SN-753964

		US-PATENT-CLASS-2-2.1A			US-PATENT-CLASS-307-229	N78-33526*	c 44	NASA-CASE-NPO-13763-1
		US-PATENT-CLASS-285-235			US-PATENT-CLASS-307-230			US-PATENT-APPL-SN-718268
		US-PATENT-4,091,464			US-PATENT-CLASS-328-145			US-PATENT-CLASS-123-DIG.12
N78-31736*	c 54	NASA-CASE-ARC-11100-1	N78-32340*	c 33	US-PATENT-4,091,329			US-PATENT-CLASS-123-1A
		US-PATENT-APPL-SN-780569			NASA-CASE-GSC-12146-1			US-PATENT-CLASS-123-3
		US-PATENT-CLASS-2-2.1A			US-PATENT-APPL-SN-782480	N78-33913*	c 74	US-PATENT-4,112,875
		US-PATENT-4,091,465			US-PATENT-CLASS-325-159			NASA-CASE-NPO-10233-1
N78-32086*	c 05	NASA-CASE-LAR-11932-1			US-PATENT-CLASS-325-187			US-PATENT-APPL-SN-716885
		US-PATENT-APPL-SN-718244			US-PATENT-CLASS-333-17R			US-PATENT-CLASS-250-218
		US-PATENT-CLASS-244-218			US-PATENT-CLASS-333-81R			US-PATENT-CLASS-250-227
		US-PATENT-CLASS-244-45A			US-PATENT-4,092,617			US-PATENT-CLASS-250-239
		US-PATENT-CLASS-244-46	N78-32341*	c 33	NASA-CASE-LEW-12791-1			US-PATENT-CLASS-356-208
		US-PATENT-4,093,156			US-PATENT-APPL-SN-801432			US-PATENT-3,573,470
N78-32168* #	c 15	NASA-CASE-LAR-12264-1			US-PATENT-CLASS-363-101	N79-10057*	c 07	NASA-CASE-LEW-12232-1
		US-PATENT-APPL-SN-943087			US-PATENT-CLASS-363-16			US-PATENT-APPL-SN-776029
N78-32179*	c 20	NASA-CASE-NPO-11458A			US-PATENT-CLASS-363-60			US-PATENT-CLASS-415-115
		US-PATENT-APPL-SN-48621			US-PATENT-4,092,712			US-PATENT-CLASS-415-116
		US-PATENT-CLASS-102-103	N78-32395*	c 35	NASA-CASE-ARC-11036-1			US-PATENT-CLASS-60-39.14
		US-PATENT-CLASS-149-19.4			US-PATENT-APPL-SN-740457			US-PATENT-4,117,669
		US-PATENT-CLASS-149-42			US-PATENT-CLASS-33-366	N79-10162*	c 25	NASA-CASE-ARC-11053-1
		US-PATENT-CLASS-149-43			US-PATENT-4,094,073			US-PATENT-APPL-SN-814378
		US-PATENT-CLASS-149-44	N78-32396*	c 35	NASA-CASE-MFS-23363-1			US-PATENT-CLASS-23-252R
		US-PATENT-CLASS-149-76			US-PATENT-APPL-SN-730046			US-PATENT-CLASS-423-581
		US-PATENT-CLASS-149-83			US-PATENT-CLASS-324-173			US-PATENT-4,101,644
		US-PATENT-CLASS-149-85			US-PATENT-CLASS-324-207	N79-10163*	c 25	NASA-CASE-NPO-13274-1
		US-PATENT-4,116,131			US-PATENT-4,093,917			US-PATENT-APPL-SN-406296
N78-32229*	c 26	NASA-CASE-ARC-10992-1	N78-32397*	c 35	NASA-CASE-LAR-11617-2			US-PATENT-CLASS-204-180S
		US-PATENT-APPL-SN-760810			US-PATENT-APPL-SN-547072			US-PATENT-CLASS-204-299
		US-PATENT-CLASS-204-164			US-PATENT-APPL-SN-668771			US-PATENT-3,932,262
		US-PATENT-CLASS-204-175			US-PATENT-CLASS-324-249	N79-10262*	c 32	NASA-CASE-NPO-13941-1
		US-PATENT-CLASS-423-582			US-PATENT-4,088,954			US-PATENT-APPL-SN-774384
		US-PATENT-CLASS-423-583	N78-32447*	c 38	NASA-CASE-MFS-23114-1			US-PATENT-CLASS-307-233R
		US-PATENT-4,094,758			US-PATENT-APPL-SN-686331			US-PATENT-CLASS-324-77B
N78-32256*	c 27	NASA-CASE-MSC-14903-1			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-324-77C
		US-PATENT-APPL-SN-706424			US-PATENT-CLASS-356-72			US-PATENT-4,118,666
		US-PATENT-CLASS-260-2P			US-PATENT-CLASS-356-73	N79-10263*	c 32	NASA-CASE-MSC-12743-1
		US-PATENT-CLASS-260-551P			US-PATENT-CLASS-73-603			US-PATENT-APPL-SN-765167
		US-PATENT-CLASS-260-606-5P			US-PATENT-4,093,382			US-PATENT-CLASS-325-41
		US-PATENT-CLASS-260-959	N78-32539*	c 44	NASA-CASE-LAR-11208-1			US-PATENT-CLASS-340-146.1AX
		US-PATENT-CLASS-526-13			US-PATENT-APPL-SN-710036			US-PATENT-CLASS-340-146.1E
		US-PATENT-CLASS-526-23			US-PATENT-CLASS-417-88			US-PATENT-4,100,531
		US-PATENT-CLASS-526-27			US-PATENT-CLASS-60-39.07	N79-10264*	c 32	NASA-CASE-MFS-22234-1
		US-PATENT-CLASS-526-275			US-PATENT-CLASS-60-39.14			US-PATENT-APPL-SN-730778
		US-PATENT-CLASS-526-276			US-PATENT-CLASS-60-39.33			US-PATENT-CLASS-343-6R
		US-PATENT-CLASS-526-278			US-PATENT-CLASS-98-1.5			US-PATENT-CLASS-343-9
		US-PATENT-CLASS-526-49			US-PATENT-4,091,613			US-PATENT-4,118,701
		US-PATENT-CLASS-526-50	N78-32542*	c 44	NASA-CASE-KSC-11034-1	N79-10337*	c 33	NASA-CASE-KSC-11018-1
		US-PATENT-CLASS-544-195			US-PATENT-APPL-SN-782481			US-PATENT-APPL-SN-782693
		US-PATENT-4,092,466			US-PATENT-CLASS-60-641			US-PATENT-CLASS-324-133
N78-32260*	c 27	NASA-CASE-ARC-11051-1			US-PATENT-CLASS-60-671			US-PATENT-CLASS-324-72
		US-PATENT-APPL-SN-736910			US-PATENT-4,087,975			US-PATENT-CLASS-324-96
		US-PATENT-CLASS-106-48	N78-32720*	c 54	NASA-CASE-MSC-14805-1			US-PATENT-4,100,487
		US-PATENT-CLASS-106-54			US-PATENT-APPL-SN-688856	N79-10338*	c 33	NASA-CASE-GSC-12228-1
		US-PATENT-CLASS-427-215			US-PATENT-CLASS-340-213R			US-PATENT-APPL-SN-858764
		US-PATENT-CLASS-427-376A			US-PATENT-CLASS-340-262			US-PATENT-CLASS-324-57R
		US-PATENT-CLASS-427-376B			US-PATENT-CLASS-340-279			US-PATENT-CLASS-324-83D
		US-PATENT-CLASS-427-379			US-PATENT-CLASS-340-285			US-PATENT-CLASS-324-85
		US-PATENT-CLASS-427-380			US-PATENT-CLASS-340-309.1			US-PATENT-CLASS-328-163
		US-PATENT-CLASS-428-312			US-PATENT-4,092,633	N79-10339*	c 33	US-PATENT-4,118,665
		US-PATENT-CLASS-428-325	N78-32721*	c 54	NASA-CASE-ARC-11059-1			NASA-CASE-LEW-12013-1
		US-PATENT-CLASS-428-331			US-PATENT-APPL-SN-753978			US-PATENT-APPL-SN-768795
		US-PATENT-CLASS-428-341			US-PATENT-CLASS-128-142.7			US-PATENT-CLASS-301-82
		US-PATENT-CLASS-428-406			US-PATENT-CLASS-62-259			US-PATENT-CLASS-315-3.5
		US-PATENT-CLASS-428-427			US-PATENT-4,095,593			US-PATENT-CLASS-315-3.6
		US-PATENT-CLASS-428-428	N78-32848*	c 73	NASA-CASE-GSC-12083-1			US-PATENT-CLASS-330-43
		US-PATENT-CLASS-428-446			US-PATENT-APPL-SN-643897			US-PATENT-4,118,671
		US-PATENT-CLASS-428-920			US-PATENT-CLASS-350-170	N79-10389*	c 35	NASA-CASE-MFS-23461-1
		US-PATENT-CLASS-65-30R			US-PATENT-CLASS-350-173			US-PATENT-APPL-SN-694406
		US-PATENT-CLASS-65-60D			US-PATENT-CLASS-350-174			US-PATENT-CLASS-250-475
		US-PATENT-4,093,771			US-PATENT-CLASS-350-286			US-PATENT-CLASS-252-301.1R
N78-32261*	c 27	NASA-CASE-LAR-11828-1			US-PATENT-CLASS-350-320			US-PATENT-CLASS-252-301.16
		US-PATENT-APPL-SN-448321			US-PATENT-4,093,354			US-PATENT-CLASS-96-27R
		US-PATENT-APPL-SN-562992	N78-32854*	c 74	NASA-CASE-ARC-11039-1			US-PATENT-CLASS-96-60R
		US-PATENT-CLASS-260-47CP			US-PATENT-APPL-SN-750655			US-PATENT-4,101,780
		US-PATENT-CLASS-260-49			US-PATENT-CLASS-351-166	N79-10390*	c 35	NASA-CASE-LAR-12260-1
		US-PATENT-CLASS-260-63N			US-PATENT-CLASS-427-164			US-PATENT-CLASS-73-579
		US-PATENT-CLASS-260-63R			US-PATENT-CLASS-427-302			US-PATENT-CLASS-73-589
		US-PATENT-CLASS-260-65			US-PATENT-CLASS-427-322			US-PATENT-4,117,731
		US-PATENT-CLASS-260-78TF			US-PATENT-CLASS-427-387	N79-10391*	c 35	NASA-CASE-NPO-13862-1
		US-PATENT-4,094,862			US-PATENT-CLASS-427-41			US-PATENT-APPL-SN-744577
N78-32262*	c 27	NASA-CASE-MSC-14331-3			US-PATENT-CLASS-427-44			US-PATENT-CLASS-324-77K
		US-PATENT-APPL-SN-657998			US-PATENT-CLASS-428-412			US-PATENT-CLASS-343-17.2PC
		US-PATENT-CLASS-264-130			US-PATENT-CLASS-428-447			US-PATENT-CLASS-343-5CM
		US-PATENT-CLASS-264-184			US-PATENT-4,096,315			US-PATENT-CLASS-343-5W
		US-PATENT-CLASS-264-211			NASA-CASE-LEW-12496-1	N79-10418*	c 37	US-PATENT-4,101,891
		US-PATENT-CLASS-264-236	N78-33101*	c 07	US-PATENT-APPL-SN-668971			NASA-CASE-LEW-12569-1
		US-PATENT-4,094,943			US-PATENT-CLASS-29-463			US-PATENT-APPL-SN-792069
N78-32338*	c 33	NASA-CASE-GSC-12137-1			US-PATENT-CLASS-416-214A			US-PATENT-CLASS-308-DIG.1
		US-PATENT-APPL-SN-808510			US-PATENT-CLASS-416-244A			US-PATENT-CLASS-308-121
		US-PATENT-CLASS-329-124			US-PATENT-CLASS-74-572			US-PATENT-CLASS-308-160
		US-PATENT-CLASS-331-12			US-PATENT-4,097,194			US-PATENT-CLASS-308-163
		US-PATENT-CLASS-331-4			NASA-CASE-NPO-08835-1	N78-33228*	c 27	US-PATENT-CLASS-308-172
		US-PATENT-CLASS-331-64			US-PATENT-APPL-SN-588721			US-PATENT-CLASS-308-5R
		US-PATENT-4,092,606			US-PATENT-CLASS-260-28.5			US-PATENT-CLASS-308-9
N78-32339*	c 33	NASA-CASE-GSC-12145-1			US-PATENT-3,527,724			US-PATENT-4,099,799
		US-PATENT-APPL-SN-769149				N79-10419*	c 37	NASA-CASE-FRC-10111-1

				US-PATENT-APPL-SN-713027				US-PATENT-CLASS-343-854				US-PATENT-CLASS-427-343
				US-PATENT-CLASS-30-90.6				US-PATENT-4,119,972				US-PATENT-CLASS-427-398A
				US-PATENT-CLASS-81-9.5R				NASA-CASE-GSC-12150-1				US-PATENT-CLASS-427-399
				US-PATENT-4,117,749		N79-11265*	c 32	US-PATENT-APPL-SN-736286				US-PATENT-CLASS-427-75
N79-10420*	c 37			NASA-CASE-NPO-14014-1				US-PATENT-CLASS-325-4				US-PATENT-CLASS-427-84
				US-PATENT-APPL-SN-826204				US-PATENT-CLASS-325-67				US-PATENT-4,122,214
				US-PATENT-CLASS-188-1C				US-PATENT-CLASS-343-17.7		N79-11865*	c 74	NASA-CASE-MFS-23513-1
				US-PATENT-CLASS-256-1				US-PATENT-4,119,964				US-PATENT-APPL-SN-755323
				US-PATENT-CLASS-256-13.1		N79-11313*	c 33	NASA-CASE-MSC-16461-1				US-PATENT-CLASS-356-124
				US-PATENT-4,118,014				US-PATENT-APPL-SN-858765				US-PATENT-CLASS-356-210
N79-10421*	c 37			NASA-CASE-MFS-23620-1				US-PATENT-CLASS-307-232				US-PATENT-4,102,580
				US-PATENT-APPL-SN-799023				US-PATENT-CLASS-328-133		N79-11920*	c 76	NASA-CASE-NPO-13918-1
				US-PATENT-CLASS-219-124.2.2				US-PATENT-CLASS-331-1A				US-PATENT-APPL-SN-706073
				US-PATENT-CLASS-219-124.32				US-PATENT-CLASS-331-14				US-PATENT-CLASS-156-DIG.64
				US-PATENT-CLASS-219-125.1				US-PATENT-CLASS-331-23				US-PATENT-CLASS-156-DIG.65
				US-PATENT-CLASS-228-8				US-PATENT-CLASS-331-27				US-PATENT-CLASS-156-DIG.88
				US-PATENT-4,118,620				US-PATENT-4,119,926				US-PATENT-CLASS-156-608
N79-10422*	c 37			NASA-CASE-MFS-23051-1		N79-11314*	c 33	NASA-CASE-NPO-13064-1				US-PATENT-CLASS-156-617SP
				US-PATENT-APPL-SN-632111				US-PATENT-APPL-SN-297436				US-PATENT-4,121,965
				US-PATENT-CLASS-15-230.16				US-PATENT-CLASS-357-22		N79-12061*	c 05	NASA-CASE-FRC-10092-1
				US-PATENT-CLASS-15-230.17				US-PATENT-3,860,946				US-PATENT-APPL-SN-831634
				US-PATENT-CLASS-29-125		N79-11315*	c 33	NASA-CASE-KSC-11031-1				US-PATENT-CLASS-244-48
				US-PATENT-CLASS-428-133				US-PATENT-APPL-SN-782482				US-PATENT-CLASS-244-82
				US-PATENT-CLASS-74-572				US-PATENT-CLASS-324-102				US-PATENT-CLASS-244-90R
				US-PATENT-4,098,142				US-PATENT-CLASS-324-113				US-PATENT-4,124,180
N79-10513*	c 44			NASA-CASE-NPO-13732-1				US-PATENT-4,105,966		N79-12221*	c 27	NASA-CASE-MSC-12619-2
				US-PATENT-APPL-SN-765138								US-PATENT-APPL-SN-555750
				US-PATENT-CLASS-429-13		N79-11402*	c 37	NASA-CASE-MSC-16043-1				US-PATENT-APPL-SN-786913
				US-PATENT-CLASS-429-41				US-PATENT-APPL-SN-750792				US-PATENT-CLASS-244-121
				US-PATENT-CLASS-429-42				US-PATENT-CLASS-137-614.06				US-PATENT-CLASS-244-158
				US-PATENT-4,100,331				US-PATENT-CLASS-137-637.05				US-PATENT-CLASS-244-160
N79-10693*	c 51			NASA-CASE-MSC-16098-1				US-PATENT-CLASS-251-149.9				US-PATENT-CLASS-428-189
				US-PATENT-APPL-SN-792068				US-PATENT-CLASS-285-326				US-PATENT-CLASS-428-212
				US-PATENT-CLASS-210-23F				US-PATENT-CLASS-285-359				US-PATENT-CLASS-428-280
				US-PATENT-CLASS-210-433M				US-PATENT-4,103,712				US-PATENT-CLASS-428-285
				US-PATENT-CLASS-210-96M		N79-11403*	c 37	NASA-CASE-LEW-12793-1				US-PATENT-CLASS-428-286
				US-PATENT-4,118,315				US-PATENT-APPL-SN-745766				US-PATENT-CLASS-428-332
N79-10694*	c 51			NASA-CASE-GSC-12173-1				US-PATENT-CLASS-60-39.08				US-PATENT-CLASS-428-447
				US-PATENT-APPL-SN-806440				US-PATENT-CLASS-60-39.28R				US-PATENT-CLASS-428-450
				US-PATENT-CLASS-165-2				US-PATENT-CLASS-60-39.66				US-PATENT-CLASS-428-77
				US-PATENT-CLASS-165-30				US-PATENT-4,104,873				US-PATENT-CLASS-428-920
				US-PATENT-CLASS-195-1.8		N79-11404*	c 37	NASA-CASE-MFS-23447-1				US-PATENT-4,124,732
				US-PATENT-CLASS-219-299				US-PATENT-APPL-SN-736909		N79-12321*	c 33	NASA-CASE-GSC-12190-1
				US-PATENT-CLASS-219-302				US-PATENT-CLASS-308-194				US-PATENT-APPL-SN-817413
				US-PATENT-CLASS-62-514R				US-PATENT-CLASS-308-72				US-PATENT-CLASS-357-22
				US-PATENT-CLASS-62-78				US-PATENT-4,105,261				US-PATENT-CLASS-357-23
				US-PATENT-4,117,881		N79-11405*	c 37	NASA-CASE-NPO-13828-1				US-PATENT-CLASS-357-41
N79-10724*	c 52			NASA-CASE-ARC-10985-1				US-PATENT-APPL-SN-672636				US-PATENT-CLASS-357-55
				US-PATENT-APPL-SN-769148				US-PATENT-CLASS-123-148DC				US-PATENT-4,119,996
				US-PATENT-CLASS-128-2.05R				US-PATENT-CLASS-123-148E		N79-12331*	c 33	NASA-CASE-MSC-12662-1
				US-PATENT-CLASS-358-111				US-PATENT-CLASS-315-209CD				US-PATENT-APPL-SN-540779
				US-PATENT-CLASS-358-96				US-PATENT-CLASS-315-209SC				US-PATENT-CLASS-428-109
				US-PATENT-CLASS-364-417				US-PATENT-CLASS-315-241R				US-PATENT-CLASS-428-247
				US-PATENT-4,101,961				US-PATENT-4,122,816				US-PATENT-CLASS-428-258
N79-10969*	c 89			NASA-CASE-MFS-23675-1		N79-11467*	c 44	NASA-CASE-LEW-12819-1				US-PATENT-CLASS-428-259
				US-PATENT-APPL-SN-820498				US-PATENT-APPL-SN-803823				US-PATENT-4,107,363
				US-PATENT-CLASS-350-294				US-PATENT-CLASS-136-89CC				NASA-CASE-LAR-11729-1
				US-PATENT-CLASS-350-55				US-PATENT-CLASS-136-89SJ		N79-12359*	c 34	US-PATENT-APPL-SN-856461
				US-PATENT-4,101,195				US-PATENT-CLASS-357-15				US-PATENT-CLASS-73-189
N79-11108*	c 18			NASA-CASE-MFS-23579-1				US-PATENT-CLASS-357-16				US-PATENT-CLASS-73-194VS
				US-PATENT-APPL-SN-829316				US-PATENT-CLASS-357-30				US-PATENT-4,122,712
				US-PATENT-CLASS-228-13				US-PATENT-CLASS-357-65				NASA-CASE-NPO-14100-1
				US-PATENT-CLASS-228-15.1				US-PATENT-CLASS-357-67		N79-12541*	c 44	US-PATENT-APPL-SN-861391
				US-PATENT-CLASS-228-173				US-PATENT-4,104,084				US-PATENT-CLASS-324-20R
				US-PATENT-CLASS-244-159		N79-11468*	c 44	NASA-CASE-LEW-12775-1				US-PATENT-CLASS-324-22
				US-PATENT-4,122,991				US-PATENT-APPL-SN-799026				US-PATENT-4,122,383
N79-11151*	c 25			NASA-CASE-NPO-13958-1				US-PATENT-CLASS-136-89				NASA-CASE-MSC-16258-1
				US-PATENT-APPL-SN-745384				US-PATENT-CLASS-148-188		N79-12584*	c 45	US-PATENT-APPL-SN-853705
				US-PATENT-CLASS-126-91A				US-PATENT-CLASS-29-572				US-PATENT-CLASS-210-50
				US-PATENT-CLASS-431-10				US-PATENT-CLASS-427-75				US-PATENT-CLASS-210-60
				US-PATENT-CLASS-431-208				US-PATENT-4,104,091				US-PATENT-CLASS-210-63R
				US-PATENT-CLASS-432-223		N79-11469*	c 44	NASA-CASE-MFS-23518-1				US-PATENT-CLASS-423-242
				US-PATENT-CLASS-432-29				US-PATENT-APPL-SN-829390				US-PATENT-CLASS-55-73
				US-PATENT-4,104,018				US-PATENT-CLASS-204-32				US-PATENT-4,123,355
N79-11152*	c 25			NASA-CASE-NPO-13904-1				US-PATENT-CLASS-204-33				NASA-CASE-NPO-13913-1
				US-PATENT-APPL-SN-730468				US-PATENT-CLASS-204-37R				US-PATENT-APPL-SN-687251
				US-PATENT-CLASS-208-10				US-PATENT-CLASS-204-38B				US-PATENT-CLASS-128-2R
				US-PATENT-CLASS-208-8				US-PATENT-4,104,134				US-PATENT-CLASS-364-120
				US-PATENT-CLASS-302-66		N79-11470*	c 44	NASA-CASE-NPO-14126-1				US-PATENT-CLASS-364-300
				US-PATENT-CLASS-44-51				US-PATENT-APPL-SN-838336				US-PATENT-CLASS-364-415
				US-PATENT-4,121,995				US-PATENT-CLASS-204-157.1R				US-PATENT-CLASS-364-900
N79-11215* #	c 27			NASA-CASE-ARC-11170-1				US-PATENT-CLASS-250-527				US-PATENT-4,122,518
				US-PATENT-APPL-SN-956161				US-PATENT-4,105,517				NASA-CASE-KSC-11011-1
N79-11231*	c 28			NASA-CASE-NPO-13858-1		N79-11471*	c 44	NASA-CASE-NPO-13817-1				US-PATENT-APPL-SN-753977
				NASA-CASE-NPO-13859-1				US-PATENT-APPL-SN-801452				US-PATENT-CLASS-200-46
				US-PATENT-APPL-SN-740153				US-PATENT-CLASS-126-270				US-PATENT-CLASS-200-61
				US-PATENT-CLASS-102-28R				US-PATENT-CLASS-126-271				US-PATENT-CLASS-250-214AL
N79-11246*	c 31			NASA-CASE-LAR-12147-1				US-PATENT-CLASS-350-299				US-PATENT-CLASS-250-214R
				US-PATENT-APPL-SN-733825				US-PATENT-4,122,833				US-PATENT-CLASS-315-153
				US-PATENT-CLASS-73-159		N79-11472*	c 44	NASA-CASE-LEW-12552-2				US-PATENT-4,122,334
				US-PATENT-CLASS-73-95				US-PATENT-APPL-SN-844346		N79-13214*	c 32	NASA-CASE-NPO-14009-1
				US-PATENT-4,103,550				US-PATENT-CLASS-29-572				US-PATENT-APPL-SN-818917
N79-11264*	c 32			NASA-CASE-MSC-14939-1				US-PATENT-CLASS-427-123				US-PATENT-CLASS-343-117R
				US-PATENT-APPL-SN-765165				US-PATENT-CLASS-427-126				US-PATENT-CLASS-343-118
				US-PATENT-CLASS-343-844				US-PATENT-CLASS-427-261				US-PATENT-CLASS-343-7.4

N79-13288*	c 34	US-PATENT-4,122,454	N79-14267*	c 32	US-PATENT-CLASS-149-19.92	N79-14529*	c 44	US-PATENT-CLASS-357-30
		NASA-CASE-LEW-12252-1			US-PATENT-CLASS-149-20			US-PATENT-4,131,486
N79-13289*	c 34	US-PATENT-APPL-SN-559847	N79-14268*	c 32	US-PATENT-4,111,729	N79-14749*	c 52	NASA-CASE-NPO-13579-4
		US-PATENT-CLASS-165-169			NASA-CASE-NPO-13982-1			US-PATENT-APPL-SN-906297
N79-13364*	c 37	US-PATENT-CLASS-239-127.1	N79-14305*	c 33	US-PATENT-APPL-SN-782464	N79-14750*	c 52	US-PATENT-CLASS-126-271
		US-PATENT-CLASS-60-267			US-PATENT-CLASS-329-122			US-PATENT-CLASS-350-292
N79-13826*	c 72	US-PATENT-4,107,919	N79-14345*	c 35	US-PATENT-CLASS-343-14	N79-14751*	c 52	US-PATENT-CLASS-350-293
		NASA-CASE-LEW-12441-1			US-PATENT-CLASS-364-458			US-PATENT-CLASS-350-320
N79-13855*	c 74	US-PATENT-APPL-SN-559846	N79-14346*	c 35	US-PATENT-CLASS-364-604	N79-14871*	c 71	US-PATENT-4,131,336
		US-PATENT-CLASS-165-146			US-PATENT-CLASS-364-728			NASA-CASE-NPO-13930-1
N79-14095*	c 07	US-PATENT-CLASS-165-169	N79-14347*	c 35	US-PATENT-4,112,497	N79-14891*	c 74	US-PATENT-APPL-SN-700467
		US-PATENT-CLASS-239-127.1			NASA-CASE-NPO-14019-1			US-PATENT-CLASS-128-214D
N79-14096*	c 07	US-PATENT-CLASS-60-267	N79-14348*	c 35	US-PATENT-APPL-SN-843308	N79-14906*	c 76	US-PATENT-CLASS-128-272
		US-PATENT-4,108,241			US-PATENT-CLASS-343-100CL			US-PATENT-CLASS-150-1
N79-14108*	c 08	NASA-CASE-LAR-10941-2	N79-14349*	c 35	US-PATENT-CLASS-343-5CM	N79-15245*	c 33	US-PATENT-CLASS-195-1.8
		US-PATENT-APPL-SN-395493			US-PATENT-4,132,989			US-PATENT-CLASS-206-439
N79-14156*	c 24	US-PATENT-CLASS-228-107	N79-14362*	c 36	NASA-CASE-KSC-11057-1	N79-16246*	c 35	US-PATENT-CLASS-210-DIG.23
		US-PATENT-CLASS-228-2.5			US-PATENT-APPL-SN-835544			US-PATENT-CLASS-422-41
N79-14169*	c 25	US-PATENT-CLASS-29-421E	N79-14382*	c 37	US-PATENT-CLASS-324-102	N79-16678*	c 76	US-PATENT-CLASS-422-48
		US-PATENT-4,106,687			US-PATENT-CLASS-324-112			US-PATENT-CLASS-55-15-8
N79-14213*	c 27	NASA-CASE-NPO-13993-1	N79-14383*	c 37	US-PATENT-CLASS-324-113	N79-16915*	c 24	US-PATENT-4,132,594
		US-PATENT-APPL-SN-782463			US-PATENT-CLASS-324-133			NASA-CASE-GSC-12046-1
N79-14214*	c 27	US-PATENT-CLASS-331-94.5L	N79-14398*	c 38	US-PATENT-CLASS-324-72	N79-17029*	c 31	US-PATENT-APPL-SN-680015
		US-PATENT-CLASS-331-94.5P			US-PATENT-4,112,357			US-PATENT-CLASS-195-103.5K
N79-14228*	c 28	US-PATENT-CLASS-331-94.5PE	N79-14526*	c 44	NASA-CASE-LEW-12661-1	N79-17133*	c 33	US-PATENT-CLASS-195-103.5L
		US-PATENT-4,107,627			US-PATENT-APPL-SN-837796			US-PATENT-4,132,599
		NASA-CASE-MFS-23052-2			US-PATENT-CLASS-73-115			NASA-CASE-NPO-13935-1
		US-PATENT-APPL-SN-590183			US-PATENT-4,111,041			NASA-CASE-NPO-13944-1
		US-PATENT-APPL-SN-772165			NASA-CASE-LEW-12174-2			US-PATENT-APPL-SN-741749
		US-PATENT-CLASS-35-12C			US-PATENT-APPL-SN-667929			US-PATENT-CLASS-128-2V
		US-PATENT-CLASS-35-12N			US-PATENT-APPL-SN-853679			US-PATENT-CLASS-73-633
		US-PATENT-CLASS-358-104			US-PATENT-CLASS-136-202			US-PATENT-CLASS-73-644
		US-PATENT-4,106,218			US-PATENT-CLASS-136-236			US-PATENT-4,130,112
		NASA-CASE-LEW-13050-1			US-PATENT-4,111,718			NASA-CASE-LEW-12658-1
		US-PATENT-APPL-SN-513346			NASA-CASE-LAR-12230-1			US-PATENT-APPL-SN-702115
		US-PATENT-CLASS-416-157B			US-PATENT-APPL-SN-835628			US-PATENT-CLASS-181-190
		US-PATENT-CLASS-416-160			US-PATENT-CLASS-73-147			US-PATENT-CLASS-181-213
		US-PATENT-CLASS-416-162			US-PATENT-CLASS-73-4R			US-PATENT-CLASS-181-222
		US-PATENT-CLASS-416-167			US-PATENT-CLASS-73-714			US-PATENT-CLASS-181-293
		US-PATENT-4,124,330			US-PATENT-CLASS-73-721			US-PATENT-4,106,587
		NASA-CASE-LEW-12389-3			US-PATENT-CLASS-73-756			NASA-CASE-GSC-12225-1
		US-PATENT-APPL-SN-552108			US-PATENT-4,111,058			US-PATENT-APPL-SN-823566
		US-PATENT-APPL-SN-753452			NASA-CASE-NPO-13569-2			US-PATENT-CLASS-350-157
		US-PATENT-CLASS-137-15.1			US-PATENT-APPL-SN-565162			US-PATENT-4,129,357
		US-PATENT-CLASS-244-54			US-PATENT-APPL-SN-804035			NASA-CASE-MFS-23541-1
		US-PATENT-CLASS-415-200			US-PATENT-CLASS-318-573			US-PATENT-APPL-SN-814005
		US-PATENT-CLASS-415-201			US-PATENT-CLASS-318-594			US-PATENT-CLASS-204-192C
		US-PATENT-CLASS-60-226A			US-PATENT-CLASS-318-640			US-PATENT-4,111,775
		US-PATENT-CLASS-60-226R			US-PATENT-4,132,940			NASA-CASE-ARC-10975-1
		US-PATENT-CLASS-60-39.31			NASA-CASE-LAR-11859-1			US-PATENT-APPL-SN-799832
		US-PATENT-4,132,069			US-PATENT-APPL-SN-861396			US-PATENT-CLASS-250-531
		NASA-CASE-LEW-12378-1			US-PATENT-CLASS-324-57R			US-PATENT-CLASS-250-540
		US-PATENT-APPL-SN-573029			US-PATENT-4,130,795			US-PATENT-CLASS-250-541
		US-PATENT-CLASS-239-265.39			NASA-CASE-GSC-12334-1			US-PATENT-4,130,490
		US-PATENT-CLASS-60-226A			US-PATENT-APPL-SN-856464			NASA-CASE-NPO-10872-1
		US-PATENT-4,132,068			US-PATENT-CLASS-324-0.5			US-PATENT-APPL-SN-805549
		NASA-CASE-LAR-11868-2			US-PATENT-CLASS-331-94			US-PATENT-CLASS-179-100.2CH
		US-PATENT-APPL-SN-651002			US-PATENT-4,128,814			US-PATENT-CLASS-340-174.1M
		US-PATENT-APPL-SN-779429			NASA-CASE-LAR-11900-1			US-PATENT-CLASS-346-74MT
		US-PATENT-CLASS-244-218			US-PATENT-APPL-SN-775239			US-PATENT-3,626,114
		US-PATENT-CLASS-244-46			US-PATENT-CLASS-403-105			NASA-CASE-NPO-11336-1
		US-PATENT-CLASS-244-90R			US-PATENT-CLASS-416-61			NASA-CASE-NPO-13247-1
		US-PATENT-4,132,375			US-PATENT-CLASS-74-586			US-PATENT-APPL-SN-302913
		NASA-CASE-GSC-12207-1			US-PATENT-4,111,068			US-PATENT-CLASS-117-107
		US-PATENT-APPL-SN-844344			NASA-CASE-NPO-13541-1			US-PATENT-CLASS-117-119
		US-PATENT-CLASS-106-296			US-PATENT-APPL-SN-828262			US-PATENT-CLASS-117-234
		US-PATENT-CLASS-106-84			US-PATENT-CLASS-81-119			US-PATENT-CLASS-117-235
		US-PATENT-CLASS-252-518			US-PATENT-CLASS-81-180B			US-PATENT-CLASS-117-237
		US-PATENT-4,111,851			US-PATENT-CLASS-81-90B			US-PATENT-CLASS-117-239
		NASA-CASE-ARC-11121-1			US-PATENT-4,130,032			US-PATENT-CLASS-117-240
		US-PATENT-APPL-SN-850507			NASA-CASE-MSC-19672-1			US-PATENT-CLASS-148-121
		US-PATENT-CLASS-204-180G			US-PATENT-APPL-SN-696679			US-PATENT-CLASS-148-6
		US-PATENT-CLASS-204-180S			US-PATENT-CLASS-310-326			US-PATENT-CLASS-75-134D
		US-PATENT-CLASS-204-299R			US-PATENT-CLASS-310-336			US-PATENT-3,837,908
		US-PATENT-CLASS-23-230B			US-PATENT-CLASS-73-632			NASA-CASE-ARC-11040-1
		US-PATENT-CLASS-424-12			US-PATENT-CLASS-73-641			US-PATENT-APPL-SN-778195
		US-PATENT-4,130,471			US-PATENT-CLASS-73-644			US-PATENT-CLASS-156-331
		NASA-CASE-NPO-13690-2			US-PATENT-4,122,725			US-PATENT-CLASS-428-117
		US-PATENT-APPL-SN-858766			NASA-CASE-NPO-13921-1			US-PATENT-CLASS-428-119
		US-PATENT-CLASS-264-60			US-PATENT-APPL-SN-785257			US-PATENT-CLASS-428-375
		US-PATENT-CLASS-75-203			US-PATENT-CLASS-126-270			US-PATENT-CLASS-428-458
		US-PATENT-CLASS-75-205			US-PATENT-CLASS-126-271			US-PATENT-CLASS-428-73
		US-PATENT-CLASS-75-206			US-PATENT-4,111,184			US-PATENT-4,135,019
		US-PATENT-CLASS-75-212			NASA-CASE-HQN-10888-1			NASA-CASE-GSC-12168-1
		US-PATENT-CLASS-75-226			US-PATENT-APPL-SN-760057			US-PATENT-APPL-SN-838337
		US-PATENT-4,131,459			US-PATENT-CLASS-188-151A			US-PATENT-CLASS-165-30
		NASA-CASE-ARC-10892-2			US-PATENT-CLASS-188-269			US-PATENT-CLASS-174-15CA
		US-PATENT-APPL-SN-589172			US-PATENT-CLASS-303-92			US-PATENT-CLASS-250-352
		US-PATENT-APPL-SN-767912			US-PATENT-CLASS-415-9			US-PATENT-CLASS-62-514R
		US-PATENT-CLASS-427-294			US-PATENT-CLASS-416-2			US-PATENT-4,134,447
		US-PATENT-CLASS-427-41			US-PATENT-CLASS-74-572			NASA-CASE-MFS-23659-1
		US-PATENT-CLASS-428-411			US-PATENT-4,132,130			US-PATENT-APPL-SN-782462
		US-PATENT-4,132,829			NASA-CASE-LEW-12236-2			US-PATENT-CLASS-323-44F
		NASA-CASE-NPO-10866-1			US-PATENT-APPL-SN-760771			US-PATENT-CLASS-336-DIG.1
		US-PATENT-APPL-SN-849274			US-PATENT-APPL-SN-899123			US-PATENT-4,135,127
		US-PATENT-CLASS-149-19.9			US-PATENT-CLASS-136-89SJ			NASA-CASE-LEW-11583-1

				US-PATENT-APPL-SN-414042				US-PATENT-CLASS-415-174					US-PATENT-CLASS-250-237G
				US-PATENT-CLASS-55-118				US-PATENT-CLASS-415-200					US-PATENT-CLASS-354-77
				US-PATENT-CLASS-55-122				US-PATENT-4,135,851					US-PATENT-CLASS-356-129
				US-PATENT-CLASS-55-127	N79-18443*	c 44	.....	NASA-CASE-NPO-14058-1					US-PATENT-4,139,291
				US-PATENT-CLASS-55-155				US-PATENT-APPL-SN-824024	N79-20857*	c 74	.....	NASA-CASE-GSC-12263-1	
				US-PATENT-CLASS-55-241				US-PATENT-CLASS-126-271					US-PATENT-APPL-SN-817415
				US-PATENT-CLASS-55-242				US-PATENT-CLASS-165-105					US-PATENT-CLASS-250-363R
				US-PATENT-CLASS-55-360				US-PATENT-CLASS-60-508					US-PATENT-CLASS-250-483
				US-PATENT-CLASS-55-407				US-PATENT-CLASS-60-572					US-PATENT-4,142,101
				US-PATENT-4,134,744				US-PATENT-CLASS-60-641	N79-21083*	c 09	.....	NASA-CASE-LAR-10135-1	
N79-17288*	c 43	.....	NASA-CASE-NPO-13691-1		N79-18444*	c 44	.....	US-PATENT-4,135,367					US-PATENT-APPL-SN-648034
				US-PATENT-APPL-SN-664091				NASA-CASE-LEW-12819-2					US-PATENT-CLASS-73-147
				US-PATENT-CLASS-250-226				US-PATENT-APPL-SN-863770					US-PATENT-3,453,878
				US-PATENT-CLASS-356-300				US-PATENT-CLASS-148-6.3	N79-21084*	c 09	.....	NASA-CASE-XLE-03186-1	
				US-PATENT-CLASS-356-407				US-PATENT-CLASS-29-572					US-PATENT-APPL-SN-200770
				US-PATENT-CLASS-356-416				US-PATENT-CLASS-29-578					US-PATENT-CLASS-89-8
				US-PATENT-4,134,683				US-PATENT-CLASS-29-591					US-PATENT-3,224,337
N79-17313*	c 44	.....	NASA-CASE-LEW-12358-1					US-PATENT-4,135,290	N79-21123*	c 20	.....	NASA-CASE-XMF-06884-1	
				US-PATENT-APPL-SN-776146	N79-18580*	c 52	.....	NASA-CASE-ARC-11035-1					US-PATENT-APPL-SN-579300
				US-PATENT-CLASS-429-101				US-PATENT-APPL-SN-758721					US-PATENT-CLASS-164-105
				US-PATENT-CLASS-429-33				US-PATENT-CLASS-128-2.052					US-PATENT-3,485,290
				US-PATENT-4,133,941				US-PATENT-CLASS-128-2.1A	N79-21124*	c 20	.....	NASA-CASE-XMF-05964-1	
N79-17314*	c 44	.....	NASA-CASE-NPO-13652-1					US-PATENT-CLASS-128-2V					US-PATENT-APPL-SN-578397
				US-PATENT-APPL-SN-809890				US-PATENT-4,109,644					US-PATENT-CLASS-60-243
				US-PATENT-CLASS-136-89CC	N79-19186*	c 32	.....	NASA-CASE-WOO-00428-1					US-PATENT-3,390,528
				US-PATENT-CLASS-136-89P				US-PATENT-APPL-SN-112999	N79-21125*	c 20	.....	NASA-CASE-XMF-04592-1	
				US-PATENT-CLASS-29-572				US-PATENT-CLASS-117-35					NASA-CASE-XMF-04593-1
				US-PATENT-4,133,697				US-PATENT-3,173,801					US-PATENT-APPL-SN-579376
N79-17747*	c 85	.....	NASA-CASE-NPO-13847-2		N79-19195* #	c 32	.....	NASA-CASE-NPO-14525-1					US-PATENT-CLASS-60-39.74
				NASA-CASE-NPO-13848-2				US-PATENT-APPL-SN-017885					US-PATENT-3,397,537
				US-PATENT-APPL-SN-750798	N79-19447*	c 44	.....	NASA-CASE-XGS-00829-1	N79-21190*	c 27	.....	NASA-CASE-XMF-02527-1	
				US-PATENT-CLASS-162-14				US-PATENT-APPL-SN-286824					NASA-CASE-XMF-02527-1
				US-PATENT-CLASS-162-29				US-PATENT-CLASS-269-153					NASA-CASE-XMF-02783-1
				US-PATENT-CLASS-210-28				US-PATENT-3,262,694					US-PATENT-APPL-SN-483817
				US-PATENT-CLASS-210-40	N79-20179*	c 20	.....	NASA-CASE-LEW-12780-1					US-PATENT-CLASS-260-2
				US-PATENT-CLASS-210-45				US-PATENT-APPL-SN-891370					US-PATENT-3,311,571
				US-PATENT-CLASS-210-54				US-PATENT-CLASS-323-15	N79-21191*	c 27	.....	NASA-CASE-XMF-06900-1	
				US-PATENT-CLASS-210-66				US-PATENT-CLASS-323-20					US-PATENT-APPL-SN-554959
				US-PATENT-CLASS-210-67				US-PATENT-4,143,314					US-PATENT-CLASS-260-67
				US-PATENT-CLASS-210-70	N79-20296*	c 32	.....	NASA-CASE-GSC-12148-1					US-PATENT-3,419,531
				US-PATENT-CLASS-210-73R				US-PATENT-APPL-SN-786322	N79-21225*	c 31	.....	NASA-CASE-XLE-02367-1	
				US-PATENT-4,134,786				US-PATENT-CLASS-325-58					US-PATENT-APPL-SN-400857
N79-17847*	c 05	.....	NASA-CASE-ARC-11045-1					US-PATENT-CLASS-325-63					US-PATENT-CLASS-222-131
				US-PATENT-APPL-SN-818916				US-PATENT-CLASS-343-179					US-PATENT-3,215,313
				US-PATENT-CLASS-416-132R				US-PATENT-4,140,972	N79-21226*	c 31	.....	NASA-CASE-MFS-10946-1	
				US-PATENT-CLASS-416-138	N79-20297*	c 32	.....	NASA-CASE-MS-16253-1					US-PATENT-APPL-SN-581843
				US-PATENT-CLASS-416-51				US-PATENT-APPL-SN-831631					US-PATENT-CLASS-156-52
				US-PATENT-CLASS-416-88				US-PATENT-CLASS-358-109					US-PATENT-3,481,802
				US-PATENT-CLASS-416-89				US-PATENT-CLASS-358-81	N79-21227*	c 31	.....	NASA-CASE-XMF-05757-1	
				US-PATENT-4,137,010				US-PATENT-CLASS-364-713					US-PATENT-APPL-SN-562558
N79-17916*	c 24	.....	NASA-CASE-LEW-11930-4					US-PATENT-4,139,862					US-PATENT-CLASS-117-43
				US-PATENT-APPL-SN-860406	N79-20314*	c 33	.....	NASA-CASE-GSC-12138-1					US-PATENT-3,511,680
				US-PATENT-CLASS-252-12.2				US-PATENT-APPL-SN-779871	N79-21264*	c 33	.....	NASA-CASE-XMF-05373-1	
				US-PATENT-CLASS-308-DIG.8				US-PATENT-CLASS-310-231					US-PATENT-APPL-SN-474815
				US-PATENT-CLASS-308-DIG.9				US-PATENT-CLASS-310-46					US-PATENT-CLASS-335-216
				US-PATENT-CLASS-308-168				US-PATENT-CLASS-310-82					US-PATENT-3,310,765
				US-PATENT-CLASS-308-171				US-PATENT-4,142,119	N79-21265*	c 33	.....	NASA-CASE-XNP-02899-1	
				US-PATENT-CLASS-308-78	N79-20335*	c 34	.....	NASA-CASE-NPO-14130-1					US-PATENT-APPL-SN-472643
				US-PATENT-CLASS-308-87R				US-PATENT-APPL-SN-847278					US-PATENT-CLASS-317-245
				US-PATENT-CLASS-427-292				US-PATENT-CLASS-415-1					US-PATENT-3,356,917
				US-PATENT-CLASS-427-327				US-PATENT-CLASS-415-143	N79-21345*	c 37	.....	NASA-CASE-XMS-01295-1	
				US-PATENT-CLASS-427-328				US-PATENT-CLASS-60-645					US-PATENT-APPL-SN-77869
				US-PATENT-CLASS-427-34				US-PATENT-CLASS-60-649					US-PATENT-CLASS-55-159
				US-PATENT-CLASS-427-355				US-PATENT-4,141,219					US-PATENT-3,131,040
				US-PATENT-CLASS-427-376B	N79-20336*	c 34	.....	NASA-CASE-LEW-11981-2	N79-21750*	c 52	.....	NASA-CASE-MS-12239-1	
				US-PATENT-CLASS-427-376C				US-PATENT-APPL-SN-829315					US-PATENT-APPL-SN-292340
				US-PATENT-4,136,211				US-PATENT-CLASS-250-352					US-PATENT-CLASS-128-2.07
N79-18052*	c 27	.....	NASA-CASE-ARC-10915-2					US-PATENT-CLASS-313-22					US-PATENT-3,396,719
				US-PATENT-APPL-SN-634304				US-PATENT-CLASS-313-35	N79-21910*	c 76	.....	NASA-CASE-XLE-02545-1	
				US-PATENT-APPL-SN-779883				US-PATENT-CLASS-62-268					US-PATENT-APPL-SN-430748
				US-PATENT-CLASS-427-40				US-PATENT-CLASS-62-376					US-PATENT-CLASS-156-17
				US-PATENT-CLASS-427-41				US-PATENT-CLASS-62-514R					US-PATENT-3,429,756
				US-PATENT-CLASS-428-412				US-PATENT-4,141,224	N79-22235*	c 25	.....	NASA-CASE-LEW-12513-1	
				US-PATENT-CLASS-428-447				NASA-CASE-MS-19514-1					US-PATENT-APPL-SN-772167
				US-PATENT-CLASS-428-451	N79-20377*	c 37	.....	US-PATENT-APPL-SN-772168					US-PATENT-CLASS-195-103.5R
				US-PATENT-4,137,365				US-PATENT-CLASS-74-674					US-PATENT-CLASS-195-127
N79-18193*	c 33	.....	NASA-CASE-KSC-10899-1					US-PATENT-CLASS-74-705					US-PATENT-CLASS-204-1T
				US-PATENT-APPL-SN-814004				US-PATENT-CLASS-74-764					US-PATENT-CLASS-2041-195B
				US-PATENT-CLASS-324-127				US-PATENT-4,141,259					US-PATENT-4,145,255
				US-PATENT-CLASS-324-133	N79-20751*	c 60	.....	NASA-CASE-NPO-13676-1	N79-22271*	c 26	.....	NASA-CASE-LEW-12542-2	
				US-PATENT-CLASS-324-52				US-PATENT-APPL-SN-779415					US-PATENT-APPL-SN-803822
				US-PATENT-CLASS-340-650				US-PATENT-CLASS-340-347DD					US-PATENT-APPL-SN-860405
				US-PATENT-CLASS-340-664				US-PATENT-CLASS-364-900					US-PATENT-CLASS-148-12.4
				US-PATENT-4,110,683				US-PATENT-4,139,839					US-PATENT-CLASS-148-12F
N79-18296*	c 35	.....	NASA-CASE-LAR-12275-1		N79-20827*	c 71	.....	NASA-CASE-NPO-14005-1					US-PATENT-CLASS-148-2
				US-PATENT-APPL-SN-885065				US-PATENT-APPL-SN-812447					US-PATENT-4,146,409
				US-PATENT-CLASS-356-28				US-PATENT-CLASS-310-20	N79-22300*	c 27	.....	NASA-CASE-ARC-11060-1	
				US-PATENT-CLASS-358-107				US-PATENT-CLASS-310-26					US-PATENT-APPL-SN-843090
				US-PATENT-4,135,817				US-PATENT-CLASS-310-322					US-PATENT-CLASS-260-307G
N79-18307*	c 36	.....	NASA-CASE-LAR-12183-1					US-PATENT-CLASS-310-334					US-PATENT-CLASS-528-401
				US-PATENT-CLASS-331-94.5G				US-PATENT-CLASS-318-116					US-PATENT-CLASS-528-422
				US-PATENT-CLASS-331-94.5P				US-PATENT-CLASS-60-721					US-PATENT-4,145,524
				US-PATENT-CLASS-788-704				US-PATENT-CLASS-73-505	N79-22373*	c 33	.....	NASA-CASE-KSC-11008-1	
				US-PATENT-4,110,703				US-PATENT-4,139,806					US-PATENT-APPL-SN-780729
N79-18318*	c 37	.....	NASA-CASE-LEW-12131-1		N79-20856*	c 74	.....	NASA-CASE-NPO-14174-1					US-PATENT-CLASS-324-123C
				US-PATENT-APPL-SN-801290				US-PATENT-APPL-SN-876441					US-PATENT-CLASS-324-99D

		US-PATENT-CLASS-330-2			US-PATENT-CLASS-363-97			US-PATENT-CLASS-429-253
		US-PATENT-CLASS-330-51			US-PATENT-4,150,425			US-PATENT-CLASS-526-7
		US-PATENT-CLASS-330-86	N79-24257*	c 33	NASA-CASE-NPO-14056-1			US-PATENT-CLASS-526-9
		US-PATENT-4,109,213			US-PATENT-APPL-SN-833637	N79-25482*	c 44	US-PATENT-4,154,912
N79-22474*	c 37	NASA-CASE-MFS-23646-1			US-PATENT-CLASS-363-134			NASA-CASE-NPO-14199-1
		US-PATENT-APPL-SN-891372			US-PATENT-CLASS-363-71			NASA-CASE-NPO-14200-1
		US-PATENT-CLASS-136-96R			US-PATENT-CLASS-363-95			US-PATENT-APPL-SN-891243
		US-PATENT-CLASS-220-266			US-PATENT-4,149,233			US-PATENT-CLASS-136-89CA
		US-PATENT-CLASS-239-265.15	N79-24285*	c 34	NASA-CASE-MSC-16841-1			US-PATENT-CLASS-136-89CC
		US-PATENT-CLASS-239-288			US-PATENT-APPL-SN-893382			US-PATENT-CLASS-136-89PC
		US-PATENT-CLASS-277-192			US-PATENT-CLASS-210-108			US-PATENT-CLASS-136-89SJ
		US-PATENT-4,146,180			US-PATENT-CLASS-210-142			US-PATENT-4,153,476
N79-22475*	c 37	NASA-CASE-LEW-11873-1			US-PATENT-CLASS-73-714	N79-26075*	c 12	NASA-CASE-MFS-23460-1
		US-PATENT-APPL-SN-814006			US-PATENT-4,151,086			US-PATENT-APPL-SN-746578
		US-PATENT-CLASS-277-62	N79-24431*	c 44	NASA-CASE-NPO-13652-2			US-PATENT-CLASS-13-20
		US-PATENT-CLASS-277-96.1			US-PATENT-APPL-SN-848794			US-PATENT-CLASS-13-22
		US-PATENT-4,145,058			US-PATENT-CLASS-228-5.1			US-PATENT-CLASS-13-24
N79-22537*	c 39	NASA-CASE-LAR-12027-1			US-PATENT-CLASS-228-6			US-PATENT-CLASS-219-410
		US-PATENT-APPL-SN-889670			US-PATENT-CLASS-29-57.4			US-PATENT-4,158,742
		US-PATENT-CLASS-73-770			US-PATENT-CLASS-29-572	N79-26100*	c 15	NASA-CASE-ARC-11104-1
		US-PATENT-CLASS-73-810			US-PATENT-CLASS-29-739			US-PATENT-APPL-SN-854920
		US-PATENT-4,145,933			US-PATENT-CLASS-29-809			US-PATENT-CLASS-244-121
N79-22679*	c 46	NASA-CASE-NPO-14112-1			US-PATENT-4,149,665			US-PATENT-CLASS-260-37EP
		US-PATENT-APPL-SN-826326	N79-24432*	c 44	NASA-CASE-NPO-13579-2			US-PATENT-CLASS-260-830S
		US-PATENT-CLASS-102-21.6			US-PATENT-APPL-SN-762363			US-PATENT-CLASS-264-102
		US-PATENT-CLASS-166-63			US-PATENT-CLASS-126-270			US-PATENT-CLASS-264-145
		US-PATENT-CLASS-175-1			US-PATENT-CLASS-264-1			US-PATENT-CLASS-264-151
		US-PATENT-CLASS-181-106			US-PATENT-CLASS-264-33			US-PATENT-CLASS-264-175
		US-PATENT-CLASS-181-117			US-PATENT-CLASS-264-34			US-PATENT-CLASS-264-236
		US-PATENT-4,148,375			US-PATENT-CLASS-264-35			US-PATENT-CLASS-428-220
N79-23097*	c 08	NASA-CASE-LAR-12215-1			US-PATENT-CLASS-264-510			US-PATENT-CLASS-428-413
		US-PATENT-APPL-SN-858762			US-PATENT-CLASS-264-516			US-PATENT-CLASS-428-414
		US-PATENT-CLASS-244-17.13			US-PATENT-CLASS-264-70			US-PATENT-CLASS-428-418
		US-PATENT-CLASS-244-195			US-PATENT-CLASS-264-71			US-PATENT-CLASS-428-421
		US-PATENT-CLASS-244-83G			US-PATENT-CLASS-350-292			US-PATENT-CLASS-428-920
		US-PATENT-CLASS-318-585			US-PATENT-CLASS-350-294			US-PATENT-4,156,752
		US-PATENT-CLASS-318-616			US-PATENT-CLASS-350-296	N79-26372*	c 35	NASA-CASE-LAR-11889-1
		US-PATENT-CLASS-364-434			US-PATENT-CLASS-405-229			US-PATENT-APPL-SN-662182
		US-PATENT-4,148,452			US-PATENT-CLASS-405-263			US-PATENT-CLASS-308-10
N79-23310*	c 32	NASA-CASE-KSC-11023-1			US-PATENT-4,149,817			US-PATENT-CLASS-73-178R
		US-PATENT-APPL-SN-918533	N79-24433*	c 44	NASA-CASE-NPO-13579-2			US-PATENT-4,156,548
		US-PATENT-CLASS-179-1MN			US-PATENT-APPL-SN-762362	N79-26439*	c 43	NASA-CASE-MFS-23726-1
		US-PATENT-CLASS-179-27CA			US-PATENT-CLASS-126-271			US-PATENT-APPL-SN-848418
		US-PATENT-CLASS-179-84VF			US-PATENT-CLASS-126-400			US-PATENT-CLASS-105-161
		US-PATENT-4,153,818			US-PATENT-CLASS-237-1A			US-PATENT-CLASS-299-1
N79-23345*	c 33	NASA-CASE-FRC-10116-1			US-PATENT-CLASS-350-288			US-PATENT-CLASS-33-1N
		US-PATENT-APPL-SN-885049			US-PATENT-CLASS-350-299			US-PATENT-CLASS-33-1Q
		US-PATENT-CLASS-323-22T			US-PATENT-4,149,521			US-PATENT-CLASS-33-174L
		US-PATENT-4,151,456	N79-24651*	c 54	NASA-CASE-ARC-11058-2			US-PATENT-CLASS-364-560
N79-23481*	c 44	NASA-CASE-MFS-23349-1			US-PATENT-APPL-SN-753965			US-PATENT-4,156,971
		US-PATENT-APPL-SN-823061			US-PATENT-APPL-SN-883094	N79-26474*	c 44	NASA-CASE-LEW-13150-1
		US-PATENT-CLASS-126-270			US-PATENT-CLASS-2-2.1A			US-PATENT-APPL-SN-914260
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-285-235			US-PATENT-CLASS-429-101
		US-PATENT-4,148,295			US-PATENT-4,091,464			US-PATENT-CLASS-429-15
N79-23555*	c 46	NASA-CASE-NPO-14255-1			US-PATENT-4,151,612			US-PATENT-4,159,366
		US-PATENT-APPL-SN-830458	N79-24652*	c 54	NASA-CASE-NPO-13906-1	N79-26475*	c 44	NASA-CASE-MFS-23540-1
		US-PATENT-CLASS-181-115			US-PATENT-APPL-SN-837259			US-PATENT-APPL-SN-8663773
		US-PATENT-CLASS-181-120			US-PATENT-CLASS-3-1.1			US-PATENT-CLASS-29-572
		US-PATENT-CLASS-340-12R			US-PATENT-CLASS-3-12.5			US-PATENT-CLASS-29-577
		US-PATENT-4,153,134			US-PATENT-CLASS-414-6			US-PATENT-CLASS-29-578
N79-23753*	c 71	NASA-CASE-NPO-14134-1			US-PATENT-4,149,278			US-PATENT-CLASS-29-580
		US-PATENT-APPL-SN-861392	N79-24976*	c 05	NASA-CASE-LEW-11890-1			US-PATENT-CLASS-357-45
		US-PATENT-CLASS-179-1DM			US-PATENT-APPL-SN-891244			US-PATENT-4,156,309
		US-PATENT-CLASS-179-1MF			US-PATENT-CLASS-137-15.1	N79-26771*	c 52	NASA-CASE-ARC-10994-2
		US-PATENT-CLASS-181-148			US-PATENT-CLASS-244-53B			US-PATENT-APPL-SN-759965
		US-PATENT-CLASS-340-8LF			US-PATENT-4,154,256			US-PATENT-CLASS-128-660
		US-PATENT-4,149,034	N79-25142*	c 24	NASA-CASE-MSC-12737-1			US-PATENT-CLASS-73-626
N79-23798*	c 76	NASA-CASE-NPO-13969-1			US-PATENT-APPL-SN-788045			US-PATENT-4,154,230
		US-PATENT-APPL-SN-820499			US-PATENT-CLASS-102-105	N79-26772*	c 52	NASA-CASE-KSC-11069-1
		US-PATENT-CLASS-156-DIG.6-8			US-PATENT-CLASS-244-121			US-PATENT-APPL-SN-876438
		US-PATENT-CLASS-156-617SP			US-PATENT-CLASS-244-163			US-PATENT-CLASS-3-1.9
		US-PATENT-CLASS-423-345			US-PATENT-CLASS-427-350			US-PATENT-CLASS-3-12
		US-PATENT-4,152,194			US-PATENT-CLASS-427-372A			US-PATENT-CLASS-3-2
N79-24062*	c 24	NASA-CASE-ARC-11169-1			US-PATENT-CLASS-428-137			US-PATENT-4,158,895
		US-PATENT-APPL-SN-940688			US-PATENT-CLASS-428-282	N79-27836*	c 52	NASA-CASE-NPO-13910-1
		US-PATENT-CLASS-428-366			US-PATENT-CLASS-428-290			US-PATENT-APPL-SN-712270
		US-PATENT-4,148,962			US-PATENT-CLASS-428-332			US-PATENT-CLASS-128-329R
N79-24073*	c 25	NASA-CASE-LAR-11922-1			US-PATENT-CLASS-428-447			US-PATENT-CLASS-128-639
		US-PATENT-APPL-SN-856460			US-PATENT-CLASS-428-920			US-PATENT-4,154,228
		US-PATENT-CLASS-195-127			US-PATENT-4,151,800	N79-28253*	c 25	NASA-CASE-NPO-13650-1
		US-PATENT-CLASS-204-195B			US-PATENT-CLASS-157-7.3			US-PATENT-APPL-SN-704468
		US-PATENT-4,149,938	N79-25143*	c 24	US-PATENT-APPL-SN-322997			US-PATENT-CLASS-118-49
N79-24203*	c 32	NASA-CASE-LAR-12375-1			US-PATENT-APPL-SN-506803			US-PATENT-CLASS-23-252R
		US-PATENT-APPL-SN-900842			US-PATENT-APPL-SN-645502			US-PATENT-CLASS-248
		US-PATENT-CLASS-73-647			US-PATENT-CLASS-156-89			US-PATENT-CLASS-253
		US-PATENT-CLASS-73-724			US-PATENT-CLASS-220-2.2			US-PATENT-CLASS-337
		US-PATENT-4,149,423			US-PATENT-CLASS-65-43			US-PATENT-CLASS-349
N79-24210*	c 32	NASA-CASE-NPO-13641-1			US-PATENT-3,859,714			US-PATENT-CLASS-423-33.5
		US-PATENT-APPL-SN-777983			US-PATENT-4,155,475			US-PATENT-CLASS-427-95
		US-PATENT-CLASS-343-100TD	N79-25443*	c 43	NASA-CASE-MFS-23720-3			US-PATENT-4,033,286
		US-PATENT-4,148,031			US-PATENT-APPL-SN-848420	N79-28307*	c 27	NASA-CASE-LEW-12053-2
N79-24254*	c 33	NASA-CASE-NPO-14000-1			US-PATENT-CLASS-73-12			US-PATENT-APPL-SN-796263
		US-PATENT-APPL-SN-876431			US-PATENT-CLASS-73-82			US-PATENT-CLASS-260-37N
		US-PATENT-CLASS-307-82			US-PATENT-4,154,084			US-PATENT-CLASS-260-42
		US-PATENT-CLASS-363-56	N79-25481*	c 44	NASA-CASE-LEW-12972-1			US-PATENT-CLASS-260-53
		US-PATENT-CLASS-363-71			US-PATENT-APPL-SN-897829			US-PATENT-CLASS-528-126

				US-PATENT-CLASS-528-127	N79-31753*	c 44	.....	NASA-CASE-NPO-14467-1			US-PATENT-APPL-SN-903019	
				US-PATENT-CLASS-528-128				US-PATENT-APPL-SN-946994			US-PATENT-CLASS-175-78	
				US-PATENT-CLASS-528-221				US-PATENT-CLASS-136-89PC			US-PATENT-CLASS-73-155	
				US-PATENT-CLASS-528-223				US-PATENT-4,162,928			US-PATENT-4,167,111	
				US-PATENT-CLASS-528-225	N79-33316*	c 27	.....	NASA-CASE-LAR-12054-1	N80-10799*	c 54	.....	NASA-CASE-MSC-16182-1
				US-PATENT-CLASS-528-227				US-PATENT-APPL-SN-839963				US-PATENT-APPL-SN-780938
				US-PATENT-CLASS-528-229				US-PATENT-CLASS-264-137				US-PATENT-CLASS-128-142R
				US-PATENT-CLASS-528-331				US-PATENT-CLASS-428-474				US-PATENT-CLASS-128-191R
				US-PATENT-CLASS-528-336				US-PATENT-CLASS-528-229				US-PATENT-CLASS-128-212
				US-PATENT-CLASS-528-337				US-PATENT-4,166,170				US-PATENT-4,168,706
				US-PATENT-CLASS-528-338	N79-33392*	c 33	.....	NASA-CASE-XMF-04494-1	N80-14107*	c 05	.....	NASA-CASE-ARC-11106-1
				US-PATENT-CLASS-528-342				US-PATENT-APPL-SN-547643				US-PATENT-APPL-SN-831633
				US-PATENT-CLASS-544-193				US-PATENT-CLASS-200-83				US-PATENT-CLASS-415-199
				US-PATENT-4,159,262				US-PATENT-3,378,657				US-PATENT-CLASS-416-228
N79-28342*	c 28	.....		NASA-CASE-NPO-14260-1	N79-33393*	c 33	.....	NASA-CASE-XMS-01244-1				US-PATENT-CLASS-416-238
				US-PATENT-APPL-SN-861390				US-PATENT-APPL-SN-20370				US-PATENT-4,168,939
				US-PATENT-CLASS-149-19.4				US-PATENT-CLASS-200-114	N80-14183*	c 18	.....	NASA-CASE-GSC-12331-1
				US-PATENT-CLASS-149-19.9				US-PATENT-3,123,692				US-PATENT-APPL-SN-943088
				US-PATENT-CLASS-149-20	N79-33449*	c 35	.....	NASA-CASE-XGS-01245-1				US-PATENT-CLASS-343-880
				US-PATENT-4,158,583				US-PATENT-APPL-SN-134619				US-PATENT-CLASS-343-883
N79-28370*	c 31	.....		NASA-CASE-MFS-23721-1				US-PATENT-CLASS-338-18				US-PATENT-4,176,360
				US-PATENT-APPL-SN-847277				US-PATENT-3,119,086	N80-14188*	c 20	.....	NASA-CASE-XLE-02062-1
				US-PATENT-CLASS-343-14	N79-33450*	c 35	.....	NASA-CASE-XGS-01293-1				US-PATENT-APPL-SN-545793
				US-PATENT-CLASS-343-5NA				US-PATENT-APPL-SN-150690				US-PATENT-CLASS-60-203
				US-PATENT-4,161,731				US-PATENT-CLASS-73-400				US-PATENT-CLASS-60-259
N79-28415*	c 33	.....		NASA-CASE-MSC-16697-1				US-PATENT-3,190,124				US-PATENT-4,171,615
				US-PATENT-APPL-SN-885067	N79-33467*	c 37	.....	NASA-CASE-XMS-01077-1	N80-14229*	c 26	.....	NASA-CASE-NPO-14474-1
				US-PATENT-CLASS-307-119				US-PATENT-APPL-SN-228049				US-PATENT-APPL-SN-918537
				US-PATENT-CLASS-307-98				US-PATENT-CLASS-312-319				US-PATENT-CLASS-423-149
				US-PATENT-CLASS-361-170				US-PATENT-3,123,418				US-PATENT-CLASS-423-293
N79-28416*	c 33	.....		US-PATENT-4,161,661	N79-33468*	c 37	.....	NASA-CASE-HQN-00573-1				US-PATENT-CLASS-423-348
				NASA-CASE-GSC-12171-1				US-PATENT-APPL-SN-129379				US-PATENT-CLASS-423-417
				US-PATENT-APPL-SN-878542				US-PATENT-CLASS-137-14				US-PATENT-CLASS-423-625
				US-PATENT-CLASS-343-909				US-PATENT-3,134,389	N80-14281*	c 32	.....	US-PATENT-4,172,883
				US-PATENT-4,160,254	N79-33469*	c 37	.....	NASA-CASE-XGS-01286-1				NASA-CASE-NPO-13830-1
N79-28527*	c 35	.....		NASA-CASE-NPO-13953-1				US-PATENT-APPL-SN-142583				US-PATENT-APPL-SN-703905
				US-PATENT-APPL-SN-880727				US-PATENT-CLASS-251-172				US-PATENT-APPL-SN-834257
				US-PATENT-CLASS-356-237				US-PATENT-3,233,862				US-PATENT-CLASS-333-81R
				US-PATENT-CLASS-356-404	N79-34011*	c 74	.....	NASA-CASE-NPO-14066-1				US-PATENT-CLASS-343-18A
				US-PATENT-4,160,601				US-PATENT-APPL-SN-827464				US-PATENT-CLASS-343-909
N79-28549*	c 37	.....		NASA-CASE-GSC-12297-1				US-PATENT-CLASS-250-216				US-PATENT-4,164,718
				US-PATENT-APPL-SN-880838				US-PATENT-CLASS-250-551	N80-14330*	c 33	.....	NASA-CASE-NPO-10857-1
				US-PATENT-CLASS-165-105				US-PATENT-4,166,959				US-PATENT-APPL-SN-888362
				US-PATENT-CLASS-357-74	N80-10278*	c 20	.....	NASA-CASE-MFS-23642-1				US-PATENT-CLASS-315-145
				US-PATENT-CLASS-357-79				US-PATENT-APPL-SN-923758				US-PATENT-CLASS-315-260
				US-PATENT-CLASS-357-81				US-PATENT-CLASS-137-177				US-PATENT-CLASS-315-334
				US-PATENT-CLASS-357-82				US-PATENT-CLASS-137-209				US-PATENT-3,635,537
				US-PATENT-CLASS-357-83				US-PATENT-CLASS-137-574	N80-14332*	c 33	.....	NASA-CASE-NPO-14350-1
				US-PATENT-4,161,747				US-PATENT-CLASS-137-576				US-PATENT-APPL-SN-921627
N79-28550*	c 37	.....		NASA-CASE-GSC-12274-1				US-PATENT-CLASS-137-590				US-PATENT-CLASS-250-310
				US-PATENT-APPL-SN-909100				US-PATENT-CLASS-244-135R				US-PATENT-CLASS-250-492A
				US-PATENT-CLASS-251-7				US-PATENT-4,168,718				US-PATENT-CLASS-324-158T
				US-PATENT-CLASS-72-436	N80-10358*	c 27	.....	NASA-CASE-MSC-14903-2				US-PATENT-4,172,228
				US-PATENT-CLASS-72-451				US-PATENT-APPL-SN-706424	N80-14371*	c 35	.....	NASA-CASE-LAR-11690-1
				US-PATENT-CLASS-72-470				US-PATENT-APPL-SN-907435				US-PATENT-APPL-SN-928129
				US-PATENT-4,159,634				US-PATENT-CLASS-260-926				US-PATENT-CLASS-73-655
N79-28551*	c 37	.....		NASA-CASE-ARC-11052-1				US-PATENT-4,092,466				US-PATENT-CLASS-73-661
				US-PATENT-APPL-SN-826202				US-PATENT-4,168,287				US-PATENT-4,171,645
				US-PATENT-CLASS-414-4	N80-10374*	c 28	.....	NASA-CASE-NPO-13849-1	N80-14384*	c 36	.....	NASA-CASE-GSC-12237-1
				US-PATENT-4,160,508				NASA-CASE-NPO-13907-1				US-PATENT-APPL-SN-837795
N79-31228*	c 09	.....		NASA-CASE-LAR-12149-2				US-PATENT-APPL-SN-668783				US-PATENT-CLASS-331-94.5C
				US-PATENT-APPL-SN-829314				US-PATENT-CLASS-123-DIG.12				US-PATENT-CLASS-331-94.5P
				US-PATENT-APPL-SN-928131				US-PATENT-CLASS-123-179R				US-PATENT-4,173,001
				US-PATENT-CLASS-35-12E				US-PATENT-CLASS-123-3	N80-14395*	c 37	.....	NASA-CASE-XNP-08835-1
				US-PATENT-CLASS-35-12H				US-PATENT-CLASS-23-288R				US-PATENT-APPL-SN-534931
				US-PATENT-4,164,079				US-PATENT-CLASS-423-650				US-PATENT-CLASS-204-224
N79-31347*	c 24	.....		NASA-CASE-GSC-12303-1				US-PATENT-CLASS-48-DIG.8				US-PATENT-3,352,774
				US-PATENT-APPL-SN-862880				US-PATENT-CLASS-48-10.3	N80-14397*	c 37	.....	NASA-CASE-MFS-23284-1
				US-PATENT-CLASS-106-74				US-PATENT-CLASS-48-102A				US-PATENT-APPL-SN-753103
				US-PATENT-CLASS-106-84				US-PATENT-CLASS-48-107				US-PATENT-CLASS-204-180G
				US-PATENT-4,162,169				US-PATENT-CLASS-48-117				US-PATENT-CLASS-204-299R
N79-31523*	c 34	.....		NASA-CASE-GSC-12253-1				US-PATENT-CLASS-48-61				US-PATENT-4,040,940
				US-PATENT-APPL-SN-853677				US-PATENT-CLASS-60-300	N80-14398*	c 37	.....	NASA-CASE-GSC-12322-1
				US-PATENT-CLASS-165-105				US-PATENT-CLASS-60-606				US-PATENT-APPL-SN-907436
				US-PATENT-CLASS-165-32				US-PATENT-4,033,133				US-PATENT-CLASS-244-161
				US-PATENT-CLASS-244-1R	N80-10494*	c 37	.....	NASA-CASE-NPO-14384-1				US-PATENT-CLASS-269-156
				US-PATENT-CLASS-244-163				US-PATENT-APPL-SN-880728				US-PATENT-CLASS-294-113
				US-PATENT-4,162,701				US-PATENT-CLASS-210-186				US-PATENT-CLASS-294-86R
N79-31706*	c 43	.....		NASA-CASE-MFS-23725-1				US-PATENT-CLASS-210-340				US-PATENT-CLASS-414-1
				US-PATENT-APPL-SN-848793				US-PATENT-CLASS-239-102				US-PATENT-4,173,324
				US-PATENT-CLASS-250-253				US-PATENT-CLASS-239-302	N80-14423*	c 43	.....	NASA-CASE-MFS-23720-2
				US-PATENT-CLASS-250-272				US-PATENT-CLASS-422-187				US-PATENT-APPL-SN-848421
				US-PATENT-4,165,460				US-PATENT-CLASS-422-199				US-PATENT-CLASS-73-12
N79-31752*	c 44	.....		NASA-CASE-NPO-14205-1				US-PATENT-CLASS-422-208				US-PATENT-CLASS-73-82
				US-PATENT-APPL-SN-920879				US-PATENT-CLASS-422-235				US-PATENT-4,157,655
				US-PATENT-CLASS-106-1				US-PATENT-CLASS-422-242	N80-14472*	c 44	.....	NASA-CASE-LEW-12586-1
				US-PATENT-CLASS-106-1.2				US-PATENT-CLASS-423-350				US-PATENT-APPL-SN-916655
				US-PATENT-CLASS-136-89CC				US-PATENT-4,169,129				US-PATENT-CLASS-307-63
				US-PATENT-CLASS-252-514	N80-10507*	c 39	.....	NASA-CASE-NPO-14192-1				US-PATENT-CLASS-307-66
				US-PATENT-CLASS-29-572				US-PATENT-APPL-SN-830562				US-PATENT-CLASS-323-15
				US-PATENT-CLASS-29-589				US-PATENT-CLASS-181-102				US-PATENT-CLASS-323-19
				US-PATENT-CLASS-357-30				US-PATENT-CLASS-181-105				US-PATENT-4,175,249
				US-PATENT-CLASS-357-65				US-PATENT-CLASS-367-26	N80-14473*	c 44	.....	NASA-CASE-MFS-23727-1
				US-PATENT-CLASS-357-67				US-PATENT-CLASS-467-28				US-PATENT-APPL-SN-856465
				US-PATENT-CLASS-427-88				US-PATENT-4,168,483				US-PATENT-CLASS-126-438
				US-PATENT-4,163,678	N80-10709*	c 46	.....	NASA-CASE-NPO-14231-1				US-PATENT-CLASS-126-442

		US-PATENT-CLASS-149-15		US-PATENT-CLASS-228-212	N80-26599*	c 33	NASA-CASE-FRC-10113-1	
		US-PATENT-CLASS-149-37		US-PATENT-CLASS-228-222			US-PATENT-APPL-SN-885066	
		US-PATENT-CLASS-220-429		US-PATENT-CLASS-228-44.1R			US-PATENT-CLASS-324-51	
		US-PATENT-4,193,388		US-PATENT-CLASS-269-287			US-PATENT-4,204,154	
N80-20810*	c 44	NASA-CASE-LAR-12205-1	N80-23711*	US-PATENT-4,196,840	N80-26635*	c 35	NASA-CASE-NPO-14372-1	
		US-PATENT-APPL-SN-900843		NASA-CASE-MFS-23720-1			US-PATENT-APPL-SN-646333	
		US-PATENT-CLASS-126-419		US-PATENT-APPL-SN-848419			US-PATENT-APPL-SN-956529	
		US-PATENT-CLASS-126-434		US-PATENT-CLASS-73-12			US-PATENT-CLASS-250-338	
		US-PATENT-CLASS-126-437		US-PATENT-CLASS-73-82			US-PATENT-CLASS-250-352	
		US-PATENT-CLASS-165-32		US-PATENT-4,195,512			US-PATENT-CLASS-250-353	
		US-PATENT-4,192,290	N80-23969*	c 52	NASA-CASE-FRC-11012-1		US-PATENT-CLASS-356-328	
N80-21138*	c 74	NASA-CASE-LAR-12178-1		US-PATENT-APPL-SN-928137			US-PATENT-4,205,229	
		US-PATENT-APPL-SN-953390		US-PATENT-CLASS-128-666	N80-26658*	c 37	NASA-CASE-LEW-12131-2	
		US-PATENT-CLASS-350-25		US-PATENT-CLASS-128-690			US-PATENT-APPL-SN-801290	
		US-PATENT-CLASS-350-285		US-PATENT-4,198,988			US-PATENT-APPL-SN-931090	
		US-PATENT-CLASS-356-150	N80-24149*	c 74	NASA-CASE-GSC-12348-1		US-PATENT-CLASS-415-174	
		US-PATENT-CLASS-356-152		US-PATENT-APPL-SN-929088			US-PATENT-CLASS-415-196	
		US-PATENT-4,189,234		US-PATENT-CLASS-51-277			US-PATENT-4,135,851	
N80-21140*	c 74	NASA-CASE-GSC-12357-1		US-PATENT-CLASS-51-283R			US-PATENT-4,207,024	
		US-PATENT-APPL-SN-943089		US-PATENT-CLASS-65-61	N80-27067*	c 51	NASA-CASE-MSC-16777-1	
		US-PATENT-CLASS-250-277CH		US-PATENT-4,198,788			US-PATENT-APPL-SN-893657	
		US-PATENT-CLASS-250-280	N80-24437*	c 27	NASA-CASE-LEW-13027-1		US-PATENT-CLASS-204-195B	
		US-PATENT-CLASS-350-162R		US-PATENT-APPL-SN-958575			US-PATENT-CLASS-23-230B	
		US-PATENT-CLASS-356-334		US-PATENT-CLASS-427-164			US-PATENT-CLASS-422-68	
		US-PATENT-4,192,994		US-PATENT-CLASS-427-38			US-PATENT-CLASS-435-289	
N80-21719*	c 35	NASA-CASE-GSC-12273-1		US-PATENT-CLASS-427-40			US-PATENT-CLASS-435-290	
		US-PATENT-APPL-SN-897830		US-PATENT-CLASS-428-421			US-PATENT-CLASS-435-291	
		US-PATENT-CLASS-244-165		US-PATENT-CLASS-428-474			US-PATENT-CLASS-435-3	
		US-PATENT-CLASS-244-170		US-PATENT-4,199,650			US-PATENT-CLASS-435-311	
		US-PATENT-4,193,570	N80-24438*	c 27	NASA-CASE-MSC-14903-3		US-PATENT-CLASS-435-316	
N80-21828*	c 44	NASA-CASE-MFS-23515-1		US-PATENT-APPL-SN-706424			US-PATENT-CLASS-435-32	
		US-PATENT-APPL-SN-880726		US-PATENT-APPL-SN-907479			US-PATENT-CLASS-435-34	
		US-PATENT-CLASS-415-101		US-PATENT-CLASS-260-DIG.29			US-PATENT-CLASS-435-38	
		US-PATENT-CLASS-415-2		US-PATENT-CLASS-525-326			US-PATENT-CLASS-435-39	
		US-PATENT-4,191,505		US-PATENT-CLASS-525-336			US-PATENT-4,204,037	
N80-23383*	c 25	NASA-CASE-ARC-11154-1		US-PATENT-CLASS-525-340	N80-27072*	c 52	NASA-CASE-NPO-14212-1	
		US-PATENT-APPL-SN-921626		US-PATENT-CLASS-525-374			US-PATENT-APPL-SN-838308	
		US-PATENT-CLASS-521-146		US-PATENT-CLASS-525-375			US-PATENT-CLASS-128-642	
		US-PATENT-CLASS-521-55		US-PATENT-CLASS-526-261			US-PATENT-CLASS-128-774	
		US-PATENT-CLASS-521-918		US-PATENT-CLASS-526-275			US-PATENT-CLASS-128-782	
		US-PATENT-CLASS-525-4		US-PATENT-CLASS-526-276			US-PATENT-CLASS-33-125R	
		US-PATENT-CLASS-55-66		US-PATENT-CLASS-526-278			US-PATENT-CLASS-338-2	
		US-PATENT-CLASS-55-67		US-PATENT-CLASS-528-481			US-PATENT-CLASS-73-781	
		US-PATENT-CLASS-55-68		US-PATENT-4,200,721			US-PATENT-4,204,544	
		US-PATENT-CLASS-55-72	N80-24510*	c 32	NASA-CASE-NPO-14524-1	N80-27163*	c 72	NASA-CASE-NPO-14324-1
		US-PATENT-4,198,792		NASA-CASE-NPO-14527-1			US-PATENT-APPL-SN-940970	
N80-23419*	c 26	NASA-CASE-MFS-23816-1		US-PATENT-APPL-SN-957452			US-PATENT-CLASS-250-427	
		US-PATENT-APPL-SN-974292		US-PATENT-CLASS-350-294			US-PATENT-CLASS-313-156	
		US-PATENT-CLASS-148-32		US-PATENT-CLASS-350-6.5			US-PATENT-CLASS-313-362	
		US-PATENT-CLASS-75-135		US-PATENT-CLASS-350-6.6			US-PATENT-CLASS-313-363	
		US-PATENT-CLASS-75-138		US-PATENT-CLASS-356-28.5			US-PATENT-4,206,383	
		US-PATENT-CLASS-75-178R		US-PATENT-4,201,468	N80-27185*	c 74	NASA-CASE-LAR-12251-1	
		US-PATENT-4,198,232		NASA-CASE-LEW-12441-2			US-PATENT-APPL-SN-953389	
N80-23452*	c 27	NASA-CASE-ARC-10980-1	N80-24573*	c 34	US-PATENT-APPL-SN-559846		US-PATENT-CLASS-350-175E	
		US-PATENT-APPL-SN-694407		US-PATENT-APPL-SN-856462			US-PATENT-CLASS-350-226	
		US-PATENT-CLASS-204-171		US-PATENT-CLASS-239-127.1			US-PATENT-4,206,970	
		US-PATENT-CLASS-210-23H		US-PATENT-CLASS-60-267	N80-28300*	c 02	NASA-CASE-FRC-11024-1	
		US-PATENT-CLASS-210-500M		US-PATENT-4,199,937			US-PATENT-APPL-SN-015983	
		US-PATENT-CLASS-427-245	N80-24741*	c 44	NASA-CASE-NPO-14635-1		US-PATENT-CLASS-73-180	
		US-PATENT-CLASS-427-41		US-PATENT-APPL-SN-008212			US-PATENT-CLASS-73-182	
		US-PATENT-4,199,448		US-PATENT-CLASS-136-89SG			US-PATENT-CLASS-73-861.65	
N80-23471*	c 28	NASA-CASE-NPO-14109-1		US-PATENT-CLASS-156-DIG.64			US-PATENT-CLASS-73-861.66	
		US-PATENT-APPL-SN-946990		US-PATENT-CLASS-156-605			US-PATENT-4,212,199	
		US-PATENT-CLASS-149-108.4		US-PATENT-CLASS-156-617SP	N80-28492*	c 26	NASA-CASE-LAR-11821-1	
		US-PATENT-CLASS-23-300		US-PATENT-CLASS-252-62.3E			US-PATENT-APPL-SN-023501	
		US-PATENT-CLASS-23-302A		US-PATENT-4,210,622			US-PATENT-CLASS-148-131	
		US-PATENT-CLASS-23-302R	N80-24906*	c 46	NASA-CASE-NPO-14558-1		US-PATENT-CLASS-266-119	
		US-PATENT-CLASS-23-302T		US-PATENT-APPL-SN-945436			US-PATENT-CLASS-266-249	
		US-PATENT-4,198,209		US-PATENT-CLASS-73-155			US-PATENT-CLASS-266-274	
N80-23524*	c 32	NASA-CASE-NPO-14519-1		US-PATENT-4,196,619			US-PATENT-4,212,690	
		US-PATENT-APPL-SN-008207	N80-26298*	c 07	NASA-CASE-ARC-10814-2	N80-28536*	c 28	NASA-CASE-NPO-14477-1
		US-PATENT-CLASS-343-786		US-PATENT-APPL-SN-684045			US-PATENT-APPL-SN-951830	
		US-PATENT-CLASS-343-895		US-PATENT-APPL-SN-831632			US-PATENT-CLASS-149-19.2	
		US-PATENT-4,199,764		US-PATENT-CLASS-60-39.06			US-PATENT-CLASS-149-19.9	
N80-23559*	c 33	NASA-CASE-NPO-13804-1		US-PATENT-CLASS-60-733			US-PATENT-CLASS-149-20	
		US-PATENT-APPL-SN-766999		US-PATENT-CLASS-60-746			US-PATENT-4,210,474	
		US-PATENT-CLASS-310-319		US-PATENT-4,204,402	N80-28578*	c 32	NASA-CASE-GSC-12365-1	
		US-PATENT-CLASS-331-65	N80-26388*	c 24	NASA-CASE-MFS-23626-1		US-PATENT-APPL-SN-039031	
		US-PATENT-CLASS-340-602		US-PATENT-APPL-SN-941711			US-PATENT-CLASS-343-100SA	
		US-PATENT-CLASS-340-604		US-PATENT-CLASS-156-212			US-PATENT-CLASS-343-844	
		US-PATENT-4,197,530		US-PATENT-CLASS-156-213			US-PATENT-CLASS-343-854	
N80-23653*	c 37	NASA-CASE-MSC-16938-1		US-PATENT-CLASS-156-285			US-PATENT-4,213,131	
		US-PATENT-APPL-SN-938582		US-PATENT-CLASS-260-17.2	N80-28686*	c 35	NASA-CASE-LAR-11370-1	
		US-PATENT-CLASS-151-41.76		US-PATENT-CLASS-264-118			US-PATENT-APPL-SN-940689	
		US-PATENT-4,193,435		US-PATENT-CLASS-264-119			US-PATENT-CLASS-250-457	
N80-23654*	c 37	NASA-CASE-NPO-14473-1		US-PATENT-CLASS-264-124			US-PATENT-CLASS-250-491	
		US-PATENT-APPL-SN-938300		US-PATENT-4,204,899			US-PATENT-CLASS-250-513	
		US-PATENT-CLASS-137-375	N80-26446*	c 27	NASA-CASE-MSC-16074-1		US-PATENT-4,213,051	
		US-PATENT-CLASS-137-625.4		US-PATENT-APPL-SN-747674			NASA-CASE-LAR-12285-1	
		US-PATENT-CLASS-251-138		US-PATENT-CLASS-204-159.15	N80-28687*	c 35	US-PATENT-APPL-SN-929087	
		US-PATENT-CLASS-251-86		US-PATENT-CLASS-204-159.19			US-PATENT-CLASS-356-244	
		US-PATENT-4,195,666		US-PATENT-CLASS-525-426			US-PATENT-CLASS-356-369	
N80-23655*	c 37	NASA-CASE-GSC-12318-1		US-PATENT-CLASS-8-DIG.12			US-PATENT-4,210,401	
		US-PATENT-APPL-SN-894213		US-PATENT-CLASS-8-DIG.18	N80-28711*	c 37	NASA-CASE-LEW-12119-1	
		US-PATENT-CLASS-219-160		US-PATENT-CLASS-8-115.5			US-PATENT-APPL-SN-672219	
		US-PATENT-CLASS-219-161		US-PATENT-4,203,723			US-PATENT-CLASS-277-153	

			US-PATENT-CLASS-277-193				US-PATENT-APPL-SN-051270				US-PATENT-CLASS-260-17A
			US-PATENT-CLASS-277-224				US-PATENT-CLASS-343-700MS				US-PATENT-CLASS-260-2.1E
			US-PATENT-4,212,477				US-PATENT-CLASS-343-830				US-PATENT-CLASS-260-858
N80-29539*	c 32		NASA-CASE-LAR-11745-1	N80-32605*	c 32		US-PATENT-4,218,682				US-PATENT-CLASS-260-886
			US-PATENT-APPL-SN-799025				NASA-CASE-NPO-14253-1				US-PATENT-CLASS-260-8900
			US-PATENT-CLASS-343-786				NASA-CASE-NPO-14640-1				US-PATENT-CLASS-260-895
			US-PATENT-4,089,004				US-PATENT-APPL-SN-938293				US-PATENT-CLASS-260-898
N80-29583* #	c 33		NASA-CASE-FRC-11055-1				US-PATENT-CLASS-333-12				US-PATENT-CLASS-260-901
			US-PATENT-APPL-SN-172098				US-PATENT-CLASS-333-252				US-PATENT-CLASS-521-27
N80-29703*	c 37		NASA-CASE-NPO-14406-1				US-PATENT-CLASS-333-99S				US-PATENT-CLASS-521-32
			US-PATENT-APPL-SN-951828				US-PATENT-4,215,327				US-PATENT-CLASS-521-62
			US-PATENT-CLASS-125-21	N80-32650*	c 33		NASA-CASE-NPO-14424-1	N81-14077*	c 27		US-PATENT-4,119,581
			US-PATENT-CLASS-83-820				NASA-CASE-NPO-14430-1				NASA-CASE-MSC-12631-3
			US-PATENT-4,191,159				US-PATENT-APPL-SN-918534				US-PATENT-APPL-SN-006952
N80-29834*	c 44		NASA-CASE-LAR-11551-1				US-PATENT-CLASS-324-62				US-PATENT-APPL-SN-568541
			US-PATENT-APPL-SN-883090				US-PATENT-CLASS-324-64				US-PATENT-APPL-SN-785279
			US-PATENT-CLASS-290-53				US-PATENT-4,218,650				US-PATENT-CLASS-156-154
			US-PATENT-CLASS-310-30	N80-32716*	c 37		NASA-CASE-MFS-23777-1				US-PATENT-CLASS-156-160
			US-PATENT-4,191,893				US-PATENT-APPL-SN-931217				US-PATENT-CLASS-156-163
N80-29835*	c 44		NASA-CASE-NPO-13786-1				US-PATENT-CLASS-318-15				US-PATENT-CLASS-156-212
			US-PATENT-APPL-SN-696374				US-PATENT-CLASS-74-425				US-PATENT-CLASS-156-267
			US-PATENT-CLASS-148-1.5				US-PATENT-CLASS-74-661				US-PATENT-CLASS-156-295
			US-PATENT-CLASS-357-30				US-PATENT-CLASS-74-665C				US-PATENT-CLASS-156-323
			US-PATENT-CLASS-357-52				US-PATENT-4,215,592				US-PATENT-CLASS-156-331
			US-PATENT-CLASS-357-91	N80-32717*	c 37		NASA-CASE-GSC-12289-1				US-PATENT-4,032,089
			US-PATENT-4,090,213				US-PATENT-APPL-SN-943086	N81-14078*	c 27		US-PATENT-4,225,372
N80-31790*	c 37		NASA-CASE-LEW-12274-1				US-PATENT-CLASS-198-847				NASA-CASE-LAR-12054-2
			US-PATENT-APPL-SN-950876				US-PATENT-CLASS-198-848				US-PATENT-APPL-SN-011737
			US-PATENT-CLASS-417-383				US-PATENT-CLASS-474-205				US-PATENT-APPL-SN-839963
			US-PATENT-CLASS-60-520				US-PATENT-4,215,590				US-PATENT-CLASS-264-137
			US-PATENT-4,215,548	N80-33081* #	c 52		NASA-CASE-ARC-11258-1				US-PATENT-CLASS-427-385.5
N80-32244*	c 76		NASA-CASE-NPO-14298-1				US-PATENT-APPL-SN-185865				US-PATENT-CLASS-427-429
			US-PATENT-APPL-SN-938579	N80-33186*	c 72		NASA-CASE-LEW-12940-1				US-PATENT-CLASS-428-473.5
			US-PATENT-CLASS-156-DIG.96				US-PATENT-APPL-SN-953391				US-PATENT-4,166,170
			US-PATENT-CLASS-422-246				US-PATENT-CLASS-313-231.4				US-PATENT-4,233,258
			US-PATENT-4,216,186				US-PATENT-CLASS-313-362	N81-14103*	c 28		NASA-CASE-LEW-12081-3
N80-32245*	c 76		NASA-CASE-NPO-14295-1				US-PATENT-4,218,633				US-PATENT-APPL-SN-009887
			US-PATENT-APPL-SN-901055	N80-33210*	c 74		NASA-CASE-MSC-18255-1				US-PATENT-APPL-SN-676432
			US-PATENT-CLASS-156-DIG.64				US-PATENT-APPL-SN-025163				US-PATENT-APPL-SN-837794
			US-PATENT-CLASS-156-DIG.88				US-PATENT-CLASS-250-347				US-PATENT-CLASS-149-1
			US-PATENT-CLASS-156-601				US-PATENT-CLASS-250-352				US-PATENT-CLASS-156-344
			US-PATENT-CLASS-156-617SP				US-PATENT-CLASS-250-353				US-PATENT-CLASS-423-648R
			US-PATENT-4,217,165				US-PATENT-CLASS-350-55				US-PATENT-CLASS-44-7R
N80-32359*	c 04		NASA-CASE-NPO-14173-1				US-PATENT-CLASS-356-72				US-PATENT-CLASS-55-2
			US-PATENT-APPL-SN-938581				US-PATENT-4,215,273				US-PATENT-CLASS-62-12
			US-PATENT-CLASS-343-112R	N80-33482*	c 24		NASA-CASE-LEW-11930-3				US-PATENT-CLASS-62-18
			US-PATENT-4,215,345				US-PATENT-APPL-SN-513611				US-PATENT-CLASS-62-40
N80-32392*	c 07		NASA-CASE-ARC-10977-1				US-PATENT-APPL-SN-616528				US-PATENT-CLASS-62-47
			US-PATENT-APPL-SN-023436				US-PATENT-APPL-SN-764245				US-PATENT-4,077,788
			US-PATENT-CLASS-239-127.3				US-PATENT-CLASS-75-200				US-PATENT-4,193,827
			US-PATENT-CLASS-239-265.33				US-PATENT-CLASS-75-222				US-PATENT-4,229,196
			US-PATENT-CLASS-60-264				US-PATENT-4,214,905	N81-14137*	c 31		NASA-CASE-KSC-11064-1
			US-PATENT-4,214,703	N81-12330* #	c 33		NASA-CASE-MFS-25535-1				US-PATENT-APPL-SN-897840
N80-32484*	c 26		NASA-CASE-LEW-12542-3				US-PATENT-APPL-SN-199765				US-PATENT-CLASS-169-62
			US-PATENT-APPL-SN-007083	N81-12542*	c 44		NASA-CASE-LEW-12806-2				US-PATENT-CLASS-169-70
			US-PATENT-APPL-SN-803822				US-PATENT-APPL-SN-065676				US-PATENT-4,219,084
			US-PATENT-CLASS-75-124				US-PATENT-APPL-SN-915050	N81-14185*	c 32		NASA-CASE-NPO-14536-1
			US-PATENT-4,214,902				US-PATENT-CLASS-136-249				US-PATENT-APPL-SN-974471
N80-32514*	c 27		NASA-CASE-NPO-13137-1				US-PATENT-CLASS-136-291				US-PATENT-CLASS-343-100TD
			US-PATENT-APPL-SN-332123				US-PATENT-CLASS-363-147				US-PATENT-4,233,606
			US-PATENT-APPL-SN-374810				US-PATENT-CLASS-363-27	N81-14186*	c 32		NASA-CASE-NPO-14749-1
			US-PATENT-CLASS-568-852				US-PATENT-CLASS-363-60				US-PATENT-APPL-SN-078521
			US-PATENT-CLASS-568-861				US-PATENT-4,217,633				US-PATENT-CLASS-375-107
			US-PATENT-4,118,427	N81-13999*	c 24		NASA-CASE-ARC-11174-1				US-PATENT-CLASS-455-51
N80-32515*	c 27		NASA-CASE-NPO-13899-1				US-PATENT-APPL-SN-929086				US-PATENT-CLASS-455-619
			US-PATENT-APPL-SN-761252				US-PATENT-CLASS-260-17.2				US-PATENT-CLASS-455-71
			US-PATENT-APPL-SN-933186				US-PATENT-CLASS-428-114				US-PATENT-4,234,971
			US-PATENT-CLASS-260-346.3				US-PATENT-CLASS-428-528	N81-14187*	c 32		NASA-CASE-MSC-16800-1
			US-PATENT-4,196,129				US-PATENT-CLASS-428-541				US-PATENT-APPL-SN-953313
N80-32516*	c 27		NASA-CASE-LEW-13103-1				US-PATENT-CLASS-428-921				US-PATENT-CLASS-343-727
			US-PATENT-APPL-SN-971596				US-PATENT-4,209,561				US-PATENT-CLASS-343-789
			US-PATENT-CLASS-156-272	N81-14000*	c 24		NASA-CASE-LAR-12065-1				US-PATENT-CLASS-343-797
			US-PATENT-CLASS-156-292				US-PATENT-APPL-SN-889671				US-PATENT-4,218,685
			US-PATENT-CLASS-204-159.11				US-PATENT-CLASS-156-330	N81-14220*	c 33		NASA-CASE-NPO-14163-1
			US-PATENT-CLASS-204-159.14				US-PATENT-CLASS-428-113				US-PATENT-APPL-SN-878541
			US-PATENT-CLASS-264-212				US-PATENT-CLASS-428-114				US-PATENT-CLASS-363-56
			US-PATENT-CLASS-264-22				US-PATENT-CLASS-428-140				US-PATENT-CLASS-363-71
			US-PATENT-CLASS-427-44				US-PATENT-CLASS-428-413				US-PATENT-CLASS-363-78
			US-PATENT-CLASS-428-500				US-PATENT-CLASS-428-480				US-PATENT-4,222,098
			US-PATENT-CLASS-429-139				US-PATENT-CLASS-428-902	N81-14221*	c 33		NASA-CASE-GSC-12411-1
			US-PATENT-4,218,280				US-PATENT-4,229,473				US-PATENT-APPL-SN-965367
N80-32583*	c 31		NASA-CASE-GSC-12191-1	N81-14015*	c 25		NASA-CASE-NPO-14143-1				US-PATENT-CLASS-340-309.4
			US-PATENT-APPL-SN-009886				US-PATENT-APPL-SN-938297				US-PATENT-CLASS-340-310A
			US-PATENT-CLASS-165-16				US-PATENT-CLASS-250-343				US-PATENT-CLASS-340-310R
			US-PATENT-CLASS-236-13				US-PATENT-CLASS-356-437				US-PATENT-CLASS-340-870.24
			US-PATENT-CLASS-236-44C				US-PATENT-4,234,258				US-PATENT-CLASS-368-47
			US-PATENT-CLASS-236-49	N81-14016*	c 25		NASA-CASE-ARC-11241-1				US-PATENT-CLASS-370-85
			US-PATENT-4,210,278				US-PATENT-APPL-SN-037066				US-PATENT-4,228,422
N80-32584*	c 31		NASA-CASE-NPO-14191-1				US-PATENT-CLASS-260-33.8F	N81-14287*	c 35		NASA-CASE-NPO-14513-1
			US-PATENT-APPL-SN-830846				US-PATENT-CLASS-528-362				US-PATENT-APPL-SN-025162
			US-PATENT-CLASS-181-102				US-PATENT-CLASS-528-401				US-PATENT-CLASS-165-105
			US-PATENT-CLASS-367-27				US-PATENT-CLASS-528-422				US-PATENT-CLASS-62-514R
			US-PATENT-CLASS-367-36				US-PATENT-4,234,715				US-PATENT-4,218,892
			US-PATENT-CLASS-367-57	N81-14076*	c 27		NASA-CASE-NPO-14001-1	N81-14317*	c 37		NASA-CASE-MSC-16973-1
			US-PATENT-4,214,226				US-PATENT-APPL-SN-771245				US-PATENT-APPL-SN-969756
N80-32604*	c 32		NASA-CASE-MSC-18334-1				US-PATENT-CLASS-210-24R				US-PATENT-CLASS-150-11

		US-PATENT-CLASS-156-294				US-PATENT-CLASS-202-118				US-PATENT-CLASS-528-422
		US-PATENT-CLASS-52-232				US-PATENT-CLASS-264-23				US-PATENT-4,245,085
		US-PATENT-CLASS-52-743				US-PATENT-CLASS-425-378R	N81-17348*	c 33		NASA-CASE-MFS-23845-1
		US-PATENT-4,235,060				US-PATENT-4,206,713				US-PATENT-APPL-SN-938298
N81-14318*	c 37	NASA-CASE-NPO-14220-1	N81-15179*	c 32		NASA-CASE-MSC-18035-1				US-PATENT-CLASS-307-233R
		US-PATENT-APPL-SN-907421				US-PATENT-APPL-SN-041142				US-PATENT-CLASS-307-306
		US-PATENT-CLASS-60-518				US-PATENT-CLASS-375-1				US-PATENT-CLASS-333-204
		US-PATENT-CLASS-74-417				US-PATENT-CLASS-375-115				US-PATENT-4,227,096
		US-PATENT-4,228,656				US-PATENT-CLASS-375-58	N81-17349*	c 33		NASA-CASE-MSC-16747-1
N81-14319*	c 37	NASA-CASE-LAR-11855-1				US-PATENT-4,221,005				US-PATENT-APPL-SN-974475
		US-PATENT-APPL-SN-953314	N81-15192*	c 33		NASA-CASE-NPO-14444-1				US-PATENT-CLASS-328-134
		US-PATENT-CLASS-407-117				US-PATENT-APPL-SN-017890				US-PATENT-CLASS-328-37
		US-PATENT-CLASS-407-85				US-PATENT-CLASS-332-22				US-PATENT-CLASS-328-55
		US-PATENT-CLASS-408-1R				US-PATENT-CLASS-332-23R				US-PATENT-CLASS-331-48
		US-PATENT-CLASS-82-1.2				US-PATENT-CLASS-375-54				US-PATENT-4,241,308
		US-PATENT-CLASS-82-1C				US-PATENT-CLASS-375-67	N81-17432*	c 37		NASA-CASE-NPO-14388-1
		US-PATENT-CLASS-82-36R				US-PATENT-CLASS-455-102				US-PATENT-APPL-SN-008208
		US-PATENT-4,218,941				US-PATENT-4,216,542				US-PATENT-CLASS-60-518
N81-14320*	c 37	NASA-CASE-GSC-12429-1	N81-15363*	c 37		NASA-CASE-MSC-18134-1				US-PATENT-CLASS-74-417
		US-PATENT-APPL-SN-009888				US-PATENT-APPL-SN-974472				US-PATENT-4,240,256
		US-PATENT-CLASS-244-161				US-PATENT-CLASS-277-181	N81-17433*	c 37		NASA-CASE-ARC-11251-1
		US-PATENT-CLASS-294-106				US-PATENT-CLASS-277-229				US-PATENT-APPL-SN-057465
		US-PATENT-CLASS-414-1				US-PATENT-4,219,203				US-PATENT-CLASS-128-DIG.20
		US-PATENT-4,219,171	N81-15364*	c 37		NASA-CASE-NPO-14170-1				US-PATENT-CLASS-137-549
N81-14389*	c 44	NASA-CASE-NPO-14416-1				US-PATENT-APPL-SN-860404				US-PATENT-CLASS-137-886
		US-PATENT-APPL-SN-014664				US-PATENT-CLASS-188-134				US-PATENT-CLASS-137-887
		US-PATENT-CLASS-29-DIG.1				US-PATENT-CLASS-188-180				US-PATENT-CLASS-251-216
		US-PATENT-CLASS-29-832				US-PATENT-CLASS-188-184				US-PATENT-CLASS-251-339
		US-PATENT-4,219,926				US-PATENT-CLASS-244-173				US-PATENT-4,239,057
N81-14605*	c 51	NASA-CASE-ARC-11114-1				US-PATENT-4,219,107	N81-17499*	c 43		NASA-CASE-FRC-11013-1
		US-PATENT-APPL-SN-951422	N81-15706*	c 60		NASA-CASE-NPO-14162-1				US-PATENT-APPL-SN-043912
		US-PATENT-CLASS-128-DIG.12				NASA-CASE-NPO-14167-1				US-PATENT-CLASS-244-160
		US-PATENT-CLASS-128-DIG.16				NASA-CASE-NPO-14169-1				US-PATENT-CLASS-244-49
		US-PATENT-CLASS-128-DIG.26				US-PATENT-APPL-SN-893903				US-PATENT-4,240,601
		US-PATENT-CLASS-128-DIG.6				US-PATENT-CLASS-307-219	N81-17518*	c 44		NASA-CASE-NPO-14619-1
		US-PATENT-CLASS-128-DIG.9				US-PATENT-CLASS-307-225R				US-PATENT-APPL-SN-027559
		US-PATENT-CLASS-128-204.18				US-PATENT-CLASS-307-269				US-PATENT-CLASS-126-419
		US-PATENT-CLASS-128-207.14				US-PATENT-CLASS-307-291				US-PATENT-CLASS-60-524
		US-PATENT-CLASS-128-207.28				US-PATENT-CLASS-328-192				US-PATENT-CLASS-60-641
		US-PATENT-CLASS-128-236				US-PATENT-CLASS-328-48				US-PATENT-4,236,383
		US-PATENT-4,212,297				US-PATENT-CLASS-328-71	N81-17886*	c 74		NASA-CASE-NPO-14219-1
N81-14612*	c 52	NASA-CASE-ARC-11117-1				US-PATENT-4,213,064				US-PATENT-APPL-SN-888432
		US-PATENT-APPL-SN-003693	N81-15767*	c 71		NASA-CASE-MFS-25050-1				US-PATENT-CLASS-350-301
		US-PATENT-CLASS-128-642				US-PATENT-APPL-SN-057466				US-PATENT-CLASS-354-118
		US-PATENT-4,219,027				US-PATENT-CLASS-308-10				US-PATENT-CLASS-362-11
N81-14613*	c 52	NASA-CASE-ARC-11118-2				US-PATENT-CLASS-73-505				US-PATENT-CLASS-362-241
		US-PATENT-APPL-SN-850504				US-PATENT-4,218,921				US-PATENT-4,213,684
		US-PATENT-APPL-SN-974476	N81-16209* #	c 26		NASA-CASE-LEW-23169-2	N81-17887*	c 74		NASA-CASE-NPO-14657-1
		US-PATENT-CLASS-424-274				US-PATENT-APPL-SN-191746				US-PATENT-APPL-SN-008211
		US-PATENT-4,230,717	N81-17057*	c 06		NASA-CASE-FRC-11029-1				US-PATENT-CLASS-356-432
N81-14968*	c 02	NASA-CASE-LAR-12326-1				US-PATENT-APPL-SN-164617				US-PATENT-CLASS-73-15R
		US-PATENT-APPL-SN-019541				US-PATENT-CLASS-73-147				US-PATENT-4,243,327
		US-PATENT-CLASS-102-56R				US-PATENT-CLASS-73-178R	N81-17888*	c 74		NASA-CASE-NPO-14502-1
		US-PATENT-CLASS-102-92.1				US-PATENT-4,240,290				US-PATENT-APPL-SN-965368
		US-PATENT-CLASS-244-119	N81-17170*	c 24		NASA-CASE-LEW-12493-1				US-PATENT-CLASS-356-345
		US-PATENT-CLASS-244-130				US-PATENT-APPL-SN-893857				US-PATENT-CLASS-356-352
		US-PATENT-4,225,102				US-PATENT-CLASS-156-292				US-PATENT-CLASS-356-358
N81-14999*	c 07	NASA-CASE-LEW-13201-1				US-PATENT-CLASS-228-118				US-PATENT-4,243,323
		US-PATENT-APPL-SN-038980				US-PATENT-CLASS-228-170	N81-19016* #	c 02		NASA-CASE-LAR-12750-1
		US-PATENT-CLASS-137-15.1				US-PATENT-CLASS-228-174				US-PATENT-APPL-SN-210491
		US-PATENT-CLASS-181-214				US-PATENT-CLASS-228-190	N81-19087*	c 05		NASA-CASE-LAR-11797-1
		US-PATENT-4,220,171				US-PATENT-4,211,354				US-PATENT-APPL-SN-969755
N81-15104*	c 27	NASA-CASE-NPO-10830-1	N81-17187*	c 25		NASA-CASE-NPO-13530-1				US-PATENT-CLASS-244-17.25
		US-PATENT-APPL-SN-825489				US-PATENT-CLASS-210-500M				US-PATENT-CLASS-416-114
		US-PATENT-CLASS-117-6				US-PATENT-CLASS-260-2.1				US-PATENT-CLASS-416-500
		US-PATENT-CLASS-138.8R				US-PATENT-CLASS-260-2.2R				US-PATENT-CLASS-74-519
		US-PATENT-CLASS-260-33.6UB				US-PATENT-4,014,798				US-PATENT-4,245,956
		US-PATENT-CLASS-33.8UB	N81-17259*	c 27		NASA-CASE-ARC-11248-1	N81-19115*	c 07		NASA-CASE-LEW-12907-2
		US-PATENT-CLASS-37N				US-PATENT-APPL-SN-028300				US-PATENT-APPL-SN-752050
		US-PATENT-CLASS-41R				US-PATENT-CLASS-528-362				US-PATENT-APPL-SN-909235
		US-PATENT-CLASS-77.5AQ				US-PATENT-CLASS-528-401				US-PATENT-CLASS-364-106
		US-PATENT-CLASS-77.5CH				US-PATENT-CLASS-528-422				US-PATENT-CLASS-364-431
		US-PATENT-CLASS-859R				US-PATENT-CLASS-528-423				US-PATENT-CLASS-60-39.24
		US-PATENT-CLASS-94.9N				US-PATENT-4,242,498				US-PATENT-4,249,238
		US-PATENT-3,655,814	N81-17260*	c 27		NASA-CASE-LEW-13226-1	N81-19116*	c 07		NASA-CASE-LEW-12594-2
N81-15119*	c 28	NASA-CASE-NPO-14110-1				US-PATENT-APPL-SN-070771				US-PATENT-APPL-SN-741056
		US-PATENT-APPL-SN-947000				US-PATENT-CLASS-260-326N				US-PATENT-APPL-SN-909608
		US-PATENT-CLASS-149-108.4				US-PATENT-CLASS-260-326S				US-PATENT-CLASS-60-226R
		US-PATENT-CLASS-23-293R				US-PATENT-CLASS-260-37EP				US-PATENT-CLASS-60-236
		US-PATENT-CLASS-252-364				US-PATENT-CLASS-528-118				US-PATENT-CLASS-60-238
		US-PATENT-CLASS-260-96D				US-PATENT-CLASS-528-322				US-PATENT-CLASS-60-239
		US-PATENT-CLASS-423-1				US-PATENT-CLASS-538-117				US-PATENT-4,242,864
		US-PATENT-CLASS-423-131				US-PATENT-4,244,857	N81-19130*	c 08		NASA-CASE-LAR-11970-2
		US-PATENT-CLASS-423-658.5	N81-17261*	c 27		NASA-CASE-NPO-14315-1				US-PATENT-APPL-SN-034104
		US-PATENT-CLASS-525-384				US-PATENT-APPL-SN-900659				US-PATENT-APPL-SN-727503
		US-PATENT-CLASS-526-914				US-PATENT-CLASS-201-10				US-PATENT-CLASS-244-12.5
		US-PATENT-CLASS-75-25				US-PATENT-CLASS-201-25				US-PATENT-CLASS-244-52
		US-PATENT-4,229,182				US-PATENT-CLASS-201-8				US-PATENT-CLASS-244-87
N81-15154*	c 31	NASA-CASE-NPO-13758-2				US-PATENT-CLASS-44-50				US-PATENT-4,236,684
		US-PATENT-APPL-SN-623389				US-PATENT-CLASS-44-62	N81-19242*	c 25		NASA-CASE-MFS-25000-1
		US-PATENT-APPL-SN-727444				US-PATENT-4,246,001				US-PATENT-APPL-SN-974474
		US-PATENT-CLASS-110-218	N81-17262*	c 27		NASA-CASE-ARC-11253-1				US-PATENT-CLASS-260-29.6RB
		US-PATENT-CLASS-110-229				US-PATENT-APPL-SN-028301				US-PATENT-CLASS-526-201
		US-PATENT-CLASS-110-232				US-PATENT-CLASS-528-310				US-PATENT-CLASS-526-88
		US-PATENT-CLASS-110-343				US-PATENT-CLASS-528-362				US-PATENT-4,247,434
		US-PATENT-CLASS-110-347				US-PATENT-CLASS-528-401	N81-19244*	c 25		NASA-CASE-NPO-13309-1

		US-PATENT-APPL-SN-363130				US-PATENT-CLASS-73-178R				US-PATENT-CLASS-128-761
		US-PATENT-CLASS-210-24				US-PATENT-CLASS-73-490				US-PATENT-CLASS-4-144.3
		US-PATENT-CLASS-260-2.1E				US-PATENT-CLASS-73-504				US-PATENT-4,246,901
		US-PATENT-CLASS-260-2.2R				US-PATENT-4,244,215	N81-24724*	c 54		NASA-CASE-KSC-11085-1
		US-PATENT-CLASS-264-41	N81-22280* #	c 33		NASA-CASE-MFS-24368-3				US-PATENT-APPL-SN-046739
		US-PATENT-3,944,485				US-PATENT-APPL-SN-243683				US-PATENT-CLASS-261-79A
N81-19296*	c 27	NASA-CASE-LEW-12933-1	N81-22344* #	c 36		NASA-CASE-GSC-12609-1				US-PATENT-CLASS-422-109
		US-PATENT-APPL-SN-027557				US-PATENT-APPL-SN-218586				US-PATENT-CLASS-422-27
		US-PATENT-CLASS-260-33.4R	N81-22360* #	c 37		NASA-CASE-LEW-12445-1				US-PATENT-CLASS-422-3
		US-PATENT-CLASS-427-221				US-PATENT-APPL-SN-238887				US-PATENT-CLASS-422-30
		US-PATENT-CLASS-427-379	N81-24106*	c 08		NASA-CASE-LAR-12268-1				US-PATENT-CLASS-422-34
		US-PATENT-CLASS-528-353				US-PATENT-APPL-SN-015996				US-PATENT-4,250,143
		US-PATENT-4,244,853				US-PATENT-CLASS-244-181	N81-24779*	c 62		NASA-CASE-KSC-11048-1
N81-19343*	c 31	NASA-CASE-GSC-12513-1				US-PATENT-CLASS-244-195				US-PATENT-APPL-SN-023437
		US-PATENT-APPL-SN-053571				US-PATENT-CLASS-318-584				US-PATENT-CLASS-364-200
		US-PATENT-CLASS-109-49.5				US-PATENT-CLASS-364-434				US-PATENT-4,254,464
		US-PATENT-CLASS-109-58.5				US-PATENT-4,261,537	N81-24900*	c 74		NASA-CASE-GSC-12528-1
		US-PATENT-CLASS-220-82R	N81-24256*	c 27		NASA-CASE-ARC-11253-3				US-PATENT-APPL-SN-111439
		US-PATENT-CLASS-220-89A				US-PATENT-APPL-SN-028301				US-PATENT-CLASS-250-368
		US-PATENT-CLASS-49-171				US-PATENT-APPL-SN-145283				US-PATENT-CLASS-250-483
		US-PATENT-4,245,566				US-PATENT-CLASS-260-465.5R				US-PATENT-4,262,206
N81-19389*	c 33	NASA-CASE-NPO-14297-1				US-PATENT-CLASS-528-310	N81-25159*	c 25		NASA-CASE-NPO-15102-1
		US-PATENT-APPL-SN-938299				US-PATENT-CLASS-564-229				US-PATENT-APPL-SN-154726
		US-PATENT-CLASS-156-DIG.96				US-PATENT-4,269,787				US-PATENT-CLASS-250-350
		US-PATENT-CLASS-156-608	N81-24257*	c 27		NASA-CASE-LEW-13135-2				US-PATENT-CLASS-356-432
		US-PATENT-CLASS-219-10.49R				US-PATENT-APPL-SN-113014				US-PATENT-4,253,769
		US-PATENT-CLASS-219-10.67R				US-PATENT-APPL-SN-971475	N81-25188*	c 26		NASA-CASE-LEW-13088-1
		US-PATENT-CLASS-422-246				US-PATENT-CLASS-264-104				US-PATENT-APPL-SN-089779
		US-PATENT-CLASS-422-249				US-PATENT-CLASS-264-105				US-PATENT-CLASS-428-471
		US-PATENT-CLASS-432-264				US-PATENT-CLASS-429-139				US-PATENT-CLASS-428-632
		US-PATENT-4,242,553				US-PATENT-CLASS-429-249				US-PATENT-CLASS-428-678
N81-19392*	c 33	NASA-CASE-GSC-12360-1				US-PATENT-CLASS-429-253				US-PATENT-CLASS-428-679
		US-PATENT-APPL-SN-041164				US-PATENT-CLASS-429-27				US-PATENT-CLASS-428-680
		US-PATENT-CLASS-363-101				US-PATENT-CLASS-429-28				US-PATENT-4,255,495
		US-PATENT-CLASS-363-21				US-PATENT-CLASS-525-61	N81-25209*	c 27		NASA-CASE-MSC-18107-1
		US-PATENT-4,245,286				US-PATENT-4,262,067				US-PATENT-APPL-SN-956168
N81-19393*	c 33	NASA-CASE-NPO-14505-1	N81-24258*	c 27		NASA-CASE-NPO-10424-1				US-PATENT-CLASS-430-271
		US-PATENT-APPL-SN-956166				US-PATENT-APPL-SN-692636				US-PATENT-CLASS-430-325
		US-PATENT-CLASS-363-21				US-PATENT-CLASS-260-37				US-PATENT-CLASS-430-329
		US-PATENT-CLASS-363-36				US-PATENT-3,651,008				US-PATENT-CLASS-430-330
		US-PATENT-CLASS-363-40	N81-24280*	c 28		NASA-CASE-MSC-16394-1				US-PATENT-4,262,080
		US-PATENT-CLASS-363-47				US-PATENT-APPL-SN-161255	N81-25258*	c 31		NASA-CASE-LAR-12095-1
		US-PATENT-4,245,288				US-PATENT-CLASS-204-129				US-PATENT-APPL-SN-811401
N81-19426*	c 35	NASA-CASE-MFS-23923-1				US-PATENT-CLASS-204-252				US-PATENT-CLASS-244-158R
		US-PATENT-APPL-SN-053569				US-PATENT-CLASS-204-266				US-PATENT-CLASS-403-171
		US-PATENT-CLASS-73-190R				US-PATENT-CLASS-204-290F				US-PATENT-CLASS-428-902
		US-PATENT-4,248,083				US-PATENT-CLASS-204-290R				US-PATENT-CLASS-52-309.1
N81-19427*	c 35	NASA-CASE-MSC-16770-1				US-PATENT-CLASS-204-291				US-PATENT-CLASS-52-648
		US-PATENT-APPL-SN-061556				US-PATENT-4,263,112				US-PATENT-CLASS-52-726
		US-PATENT-CLASS-329-107	N81-24338*	c 33		NASA-CASE-NPO-14617-1				US-PATENT-4,259,821
		US-PATENT-CLASS-329-50				US-PATENT-APPL-SN-051269	N81-25259*	c 31		NASA-CASE-LAR-12077-1
		US-PATENT-CLASS-375-1				US-PATENT-CLASS-330-8				US-PATENT-APPL-SN-014663
		US-PATENT-CLASS-375-104				US-PATENT-4,262,259				US-PATENT-CLASS-52-645
		US-PATENT-CLASS-375-34	N81-24422*	c 36		NASA-CASE-LAR-12177-1				US-PATENT-4,259,825
		US-PATENT-CLASS-375-99				US-PATENT-APPL-SN-027558	N81-25278*	c 32		NASA-CASE-NPO-14588-1
		US-PATENT-4,241,312				US-PATENT-CLASS-356-28.5				US-PATENT-APPL-SN-008209
N81-19455*	c 37	NASA-CASE-LEW-12982-1				US-PATENT-CLASS-356-356				US-PATENT-CLASS-343-755
		US-PATENT-APPL-SN-929084				US-PATENT-CLASS-356-358				US-PATENT-CLASS-343-772
		US-PATENT-CLASS-204-192E				US-PATENT-4,255,048				US-PATENT-CLASS-343-781R
		US-PATENT-CLASS-228-116	N81-24442*	c 37		NASA-CASE-LEW-12991-1				US-PATENT-CLASS-343-786
		US-PATENT-CLASS-228-205				US-PATENT-APPL-SN-961832				US-PATENT-4,258,366
		US-PATENT-4,245,768				US-PATENT-CLASS-277-96	N81-25299*	c 33		NASA-CASE-GSC-12399-1
N81-19558*	c 44	NASA-CASE-NPO-14670-1				US-PATENT-4,260,166				US-PATENT-APPL-SN-961831
		US-PATENT-APPL-SN-043941	N81-24443*	c 37		NASA-CASE-LAR-11695-2				US-PATENT-CLASS-70-58
		US-PATENT-CLASS-136-258				US-PATENT-APPL-SN-103836				US-PATENT-4,252,007
		US-PATENT-CLASS-252-62.3E				US-PATENT-APPL-SN-893865	N81-25370*	c 37		NASA-CASE-NPO-14221-1
		US-PATENT-CLASS-357-30				US-PATENT-CLASS-152-330RF				US-PATENT-APPL-SN-907431
		US-PATENT-CLASS-357-59				US-PATENT-CLASS-152-353G				US-PATENT-CLASS-60-517
		US-PATENT-CLASS-357-63				US-PATENT-CLASS-152-353R				US-PATENT-CLASS-60-525
		US-PATENT-4,249,957				US-PATENT-CLASS-152-379.4				US-PATENT-4,255,929
N81-19896*	c 74	NASA-CASE-NPO-11337-1				US-PATENT-CLASS-244-103R	N81-25371*	c 37		NASA-CASE-NPO-13823-1
		NASA-CASE-NPO-11575-1				US-PATENT-CLASS-244-130				US-PATENT-APPL-SN-658487
		US-PATENT-APPL-SN-090584				US-PATENT-4,267,992				US-PATENT-CLASS-106-43
		US-PATENT-APPL-SN-276599	N81-24519*	c 44		NASA-CASE-LEW-12441-3				US-PATENT-CLASS-264-332
		US-PATENT-CLASS-340-146.3H				US-PATENT-APPL-SN-032307				US-PATENT-4,252,768
		US-PATENT-CLASS-340-146.3S				US-PATENT-APPL-SN-856462	N81-25400*	c 39		NASA-CASE-NPO-14363-1
		US-PATENT-CLASS-340-146.3Y				US-PATENT-CLASS-239-127.1				US-PATENT-APPL-SN-969760
		US-PATENT-3,845,466				US-PATENT-CLASS-60-204				US-PATENT-CLASS-356-213
N81-19898*	c 74	NASA-CASE-NPO-12087-1				US-PATENT-CLASS-60-267				US-PATENT-CLASS-356-216
		US-PATENT-APPL-SN-095217				US-PATENT-4,199,937				US-PATENT-CLASS-356-234
		US-PATENT-CLASS-250-83.6R				US-PATENT-4,245,469				US-PATENT-CLASS-356-32
		US-PATENT-3,704,284	N81-24520*	c 44		NASA-CASE-MFS-23999-1				US-PATENT-4,252,440
N81-20352* #	c 33	NASA-CASE-NPO-13970-1				US-PATENT-APPL-SN-060435	N81-25660*	c 52		NASA-CASE-MFS-23717-1
		US-PATENT-APPL-SN-023484				US-PATENT-CLASS-250-203R				US-PATENT-APPL-SN-950877
		US-PATENT-CLASS-318-138				US-PATENT-CLASS-250-209				US-PATENT-CLASS-128-DIG.25
		US-PATENT-CLASS-318-254				US-PATENT-4,262,195				US-PATENT-CLASS-128-346
		US-PATENT-CLASS-318-439	N81-24521*	c 44		NASA-CASE-LEW-12918-1				US-PATENT-CLASS-128-377
		US-PATENT-4,249,116				US-PATENT-APPL-SN-134855				US-PATENT-CLASS-137-493
N81-20703*	c 52	NASA-CASE-NPO-14329-1				US-PATENT-CLASS-429-120				US-PATENT-4,256,093
		US-PATENT-APPL-SN-044432				US-PATENT-CLASS-429-160	N81-25661*	c 52		NASA-CASE-GSC-12082-2
		US-PATENT-CLASS-128-642				US-PATENT-CLASS-429-164				US-PATENT-APPL-SN-676958
		US-PATENT-CLASS-128-774				US-PATENT-CLASS-429-94				US-PATENT-APPL-SN-798976
		US-PATENT-CLASS-73-141A				US-PATENT-4,262,064				US-PATENT-CLASS-128-80F
		US-PATENT-4,249,417	N81-24711*	c 52		NASA-CASE-MSC-16433-1				US-PATENT-4,252,111
N81-21047*	c 04	NASA-CASE-ARC-11257-1				US-PATENT-APPL-SN-910992	N81-25662*	c 52		NASA-CASE-ARC-11167-1
		US-PATENT-APPL-SN-078611				US-PATENT-CLASS-128-295				US-PATENT-APPL-SN-057529

		US-PATENT-CLASS-128-89R			US-PATENT-CLASS-414-735			US-PATENT-APPL-SN-916654
		US-PATENT-4,261,349			US-PATENT-CLASS-414-744A			US-PATENT-CLASS-261-28
N81-26073* #	c 02	NASA-CASE-KSC-11042-2			US-PATENT-4,273,505			US-PATENT-CLASS-431-2
		US-PATENT-APPL-SN-154663	N81-27271*	c 27	NASA-CASE-ARC-11176-2			US-PATENT-CLASS-60-39.06
N81-26114*	c 05	NASA-CASE-LAR-12406-1			US-PATENT-APPL-SN-129798			US-PATENT-CLASS-60-726
		US-PATENT-APPL-SN-008210			US-PATENT-CLASS-528-168			US-PATENT-CLASS-60-737
		US-PATENT-CLASS-165-104.14			US-PATENT-CLASS-528-399			US-PATENT-4,189,914
		US-PATENT-CLASS-244-117A			US-PATENT-CLASS-528-4	N81-29152*	c 18	NASA-CASE-LAR-12052-1
		US-PATENT-CLASS-244-163			US-PATENT-CLASS-528-6			US-PATENT-APPL-SN-102002
		US-PATENT-CLASS-60-259			US-PATENT-4,276,403			US-PATENT-CLASS-364-453
		US-PATENT-CLASS-60-267	N81-27272*	c 27	NASA-CASE-ARC-11321-1			US-PATENT-CLASS-364-566
		US-PATENT-CLASS-60-730			US-PATENT-APPL-SN-175452			US-PATENT-CLASS-73-178R
		US-PATENT-CLASS-62-DIG.5			US-PATENT-CLASS-428-260			US-PATENT-CLASS-73-510
		US-PATENT-4,273,304			US-PATENT-CLASS-428-367			US-PATENT-4,281,384
N81-26152*	c 08	NASA-CASE-LAR-12562-1			US-PATENT-CLASS-428-408	N81-29160*	c 23	NASA-CASE-LEW-13101-2
		US-PATENT-APPL-SN-015995			US-PATENT-CLASS-428-902			US-PATENT-APPL-SN-145271
		US-PATENT-CLASS-244-181			US-PATENT-CLASS-428-920			US-PATENT-APPL-SN-971473
		US-PATENT-CLASS-244-182			US-PATENT-CLASS-526-262			US-PATENT-CLASS-260-17.40C
		US-PATENT-4,266,743			US-PATENT-CLASS-528-228			US-PATENT-CLASS-264-104
N81-26161*	c 14	NASA-CASE-LAR-12250-1			US-PATENT-4,276,344			US-PATENT-CLASS-428-139
		US-PATENT-APPL-SN-910794	N81-27323*	c 31	NASA-CASE-MSC-16217-1			US-PATENT-CLASS-429-249
		US-PATENT-CLASS-244-160			US-PATENT-APPL-SN-893383			US-PATENT-CLASS-429-253
		US-PATENT-CLASS-244-2			US-PATENT-CLASS-52-108			US-PATENT-CLASS-429-27
		US-PATENT-CLASS-244-63			US-PATENT-CLASS-52-745			US-PATENT-CLASS-429-28
		US-PATENT-4,265,416			US-PATENT-4,237,662			US-PATENT-CLASS-525-56
N81-26179*	c 24	NASA-CASE-LEW-12493-2	N81-27324*	c 31	NASA-CASE-LAR-12195-1			US-PATENT-CLASS-525-61
		US-PATENT-APPL-SN-122967			US-PATENT-APPL-SN-946991			US-PATENT-4,272,470
		US-PATENT-APPL-SN-893857			US-PATENT-CLASS-182-62.5	N81-29163*	c 24	NASA-CASE-MFS-23674-1
		US-PATENT-CLASS-228-118			US-PATENT-CLASS-212-267			US-PATENT-APPL-SN-912276
		US-PATENT-CLASS-228-190			US-PATENT-CLASS-52-111			US-PATENT-CLASS-156-161
		US-PATENT-4,211,354			US-PATENT-CLASS-52-632			US-PATENT-CLASS-156-165
		US-PATENT-4,267,953			US-PATENT-4,238,911			US-PATENT-CLASS-156-285
N81-26358*	c 33	NASA-CASE-LAR-12196-1	N81-27341*	c 32	NASA-CASE-GSC-12147-1			US-PATENT-CLASS-156-294
		US-PATENT-APPL-SN-017887			US-PATENT-APPL-SN-780873			US-PATENT-CLASS-156-74
		US-PATENT-CLASS-343-100PE			US-PATENT-CLASS-343-112R			US-PATENT-CLASS-264-229
		US-PATENT-4,264,908			US-PATENT-4,276,553			US-PATENT-CLASS-264-231
N81-26359*	c 33	NASA-CASE-KSC-11065-1	N81-27395*	c 33	NASA-CASE-MFS-23988-1			US-PATENT-CLASS-264-258
		US-PATENT-APPL-SN-051271			US-PATENT-APPL-SN-044431			US-PATENT-CLASS-264-259
		US-PATENT-CLASS-324-51			US-PATENT-CLASS-307-252UA			US-PATENT-CLASS-264-311
		US-PATENT-CLASS-324-73AT			US-PATENT-CLASS-318-799			US-PATENT-CLASS-264-313
		US-PATENT-CLASS-371-20			US-PATENT-CLASS-318-810			US-PATENT-CLASS-74-572
		US-PATENT-CLASS-371-25			US-PATENT-4,266,177	N81-29229*	c 27	US-PATENT-4,190,626
		US-PATENT-4,267,594	N81-27396*	c 33	NASA-CASE-NPO-14426-1			NASA-CASE-LAR-12642-1
N81-26360*	c 33	NASA-CASE-GSC-12515-1			US-PATENT-APPL-SN-009889			US-PATENT-APPL-SN-092141
		US-PATENT-APPL-SN-172727			US-PATENT-CLASS-307-352			US-PATENT-CLASS-264-137
		US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-307-353			US-PATENT-CLASS-428-473.5
		US-PATENT-CLASS-148-187			US-PATENT-CLASS-328-151			US-PATENT-CLASS-528-222
		US-PATENT-CLASS-156-647			US-PATENT-4,262,258			US-PATENT-CLASS-528-229
		US-PATENT-CLASS-156-648	N81-27397*	c 33	NASA-CASE-MSC-12745-1			US-PATENT-4,281,102
		US-PATENT-CLASS-156-649			US-PATENT-APPL-SN-746579	N81-29308*	c 32	NASA-CASE-NPO-14641-1
		US-PATENT-CLASS-29-571			US-PATENT-CLASS-179-78			US-PATENT-APPL-SN-076643
		US-PATENT-CLASS-29-578			US-PATENT-CLASS-333-12			US-PATENT-CLASS-343-100CL
		US-PATENT-CLASS-29-580			US-PATENT-CLASS-361-56			US-PATENT-CLASS-455-278
		US-PATENT-CLASS-357-23			US-PATENT-CLASS-361-91			US-PATENT-4,278,978
		US-PATENT-CLASS-357-55			US-PATENT-4,264,940	N81-29342*	c 33	NASA-CASE-GSC-12111-2
		US-PATENT-CLASS-357-60			US-PATENT-4,264,940			US-PATENT-APPL-SN-678813
		US-PATENT-CLASS-357-91	N81-27519*	c 37	NASA-CASE-NPO-14521-1			US-PATENT-APPL-SN-830272
		US-PATENT-4,272,302			US-PATENT-APPL-SN-023439			US-PATENT-CLASS-350-96.25
N81-26402*	c 34	NASA-CASE-KSC-11076-1			US-PATENT-CLASS-244-161			US-PATENT-CLASS-365-120
		US-PATENT-APPL-SN-051274			US-PATENT-CLASS-294-86R			US-PATENT-4,154,501
		US-PATENT-CLASS-364-510			US-PATENT-CLASS-318-640	N81-29407*	c 35	NASA-CASE-LAR-12308-1
		US-PATENT-CLASS-364-571			US-PATENT-CLASS-356-152			US-PATENT-APPL-SN-111438
		US-PATENT-CLASS-73-861			US-PATENT-CLASS-414-730			US-PATENT-CLASS-73-683.31
		US-PATENT-4,253,156			US-PATENT-4,260,187			US-PATENT-CLASS-73-684.52
N81-26431*	c 35	NASA-CASE-FRC-10112-1	N81-27615* #	c 44	NASA-CASE-LEW-13556-1			US-PATENT-4,274,285
		US-PATENT-APPL-SN-122965			US-PATENT-APPL-SN-272233	N81-29524*	c 44	NASA-CASE-LEW-13148-2
		US-PATENT-CLASS-219-209	N81-27783*	c 52	NASA-CASE-NPO-14402-1			US-PATENT-APPL-SN-061555
		US-PATENT-CLASS-219-210			US-PATENT-APPL-SN-855364			US-PATENT-APPL-SN-964754
		US-PATENT-CLASS-219-510			US-PATENT-CLASS-128-665			US-PATENT-CLASS-204-2.1
		US-PATENT-CLASS-236-1F			US-PATENT-CLASS-356-406			US-PATENT-4,192,910
		US-PATENT-CLASS-361-334			US-PATENT-CLASS-356-407			US-PATENT-4,270,984
		US-PATENT-CLASS-73-361			US-PATENT-CLASS-356-416	N81-29525*	c 44	NASA-CASE-NPO-13689-2
		US-PATENT-4,264,802			US-PATENT-4,170,987			US-PATENT-APPL-SN-093714
N81-26447*	c 37	NASA-CASE-LEW-12119-2	N81-27806*	c 54	NASA-CASE-LAR-12320-1			US-PATENT-APPL-SN-597430
		US-PATENT-APPL-SN-102004			US-PATENT-APPL-SN-043913			US-PATENT-APPL-SN-683073
		US-PATENT-APPL-SN-672219			US-PATENT-CLASS-434-59			US-PATENT-APPL-SN-837513
		US-PATENT-CLASS-277-153			US-PATENT-4,264,310			US-PATENT-CLASS-136-255
		US-PATENT-CLASS-277-193	N81-27814*	c 60	NASA-CASE-NPO-14554-1			US-PATENT-CLASS-136-258
		US-PATENT-4,212,477			US-PATENT-APPL-SN-974473			US-PATENT-CLASS-136-262
		US-PATENT-4,266,788			US-PATENT-CLASS-364-200			US-PATENT-CLASS-357-15
N81-26509*	c 43	NASA-CASE-NPO-14140-1			US-PATENT-CLASS-364-900			US-PATENT-CLASS-357-30
		NASA-CASE-NPO-14387-1			US-PATENT-CLASS-370-58			US-PATENT-4,278,830
		US-PATENT-APPL-SN-897832	N81-28698*	c 51	US-PATENT-4,264,984	N81-29763*	c 52	NASA-CASE-ARC-11031-1
		US-PATENT-CLASS-134-17			NASA-CASE-LAR-12520-1			US-PATENT-APPL-SN-897828
		US-PATENT-CLASS-166-222			US-PATENT-APPL-SN-067596			US-PATENT-CLASS-128-275
		US-PATENT-CLASS-166-77			US-PATENT-CLASS-204-1T			US-PATENT-CLASS-128-760
		US-PATENT-CLASS-239-562			US-PATENT-CLASS-204-195B			US-PATENT-4,190,060
		US-PATENT-CLASS-239-591			US-PATENT-CLASS-435-291	N81-29764*	c 52	NASA-CASE-ARC-11118-1
		US-PATENT-CLASS-299-13			US-PATENT-CLASS-435-34			US-PATENT-APPL-SN-850504
		US-PATENT-CLASS-299-17			US-PATENT-CLASS-435-5			US-PATENT-CLASS-424-247
		US-PATENT-CLASS-299-20	N81-28740*	c 52	US-PATENT-4,264,728			US-PATENT-CLASS-424-267
		US-PATENT-4,226,475			NASA-CASE-MSC-18381-1			US-PATENT-CLASS-424-274
N81-26718*	c 54	NASA-CASE-MFS-23696-1			US-PATENT-APPL-SN-034531			US-PATENT-4,279,906
		US-PATENT-APPL-SN-945044			US-PATENT-CLASS-128-295	N81-29963*	c 74	NASA-CASE-NPO-14448-1
		US-PATENT-CLASS-294-93			US-PATENT-CLASS-4-144.3			US-PATENT-APPL-SN-037560
		US-PATENT-CLASS-414-4	N81-29129*	c 07	US-PATENT-4,270,539			US-PATENT-CLASS-356-345
					NASA-CASE-LEW-12990-1			US-PATENT-CLASS-356-346

N81-32510*	c 37	US-PATENT-4,278,351	US-PATENT-CLASS-528-173	US-PATENT-APPL-SN-041141
		NASA-CASE-MSC-16239-1	US-PATENT-CLASS-528-180	US-PATENT-CLASS-331-94.5C
		US-PATENT-APPL-SN-847276	US-PATENT-CLASS-528-207	US-PATENT-CLASS-331-94.5D
		US-PATENT-CLASS-91-325	US-PATENT-CLASS-528-208	US-PATENT-CLASS-331-94.5P
		US-PATENT-CLASS-91-341R	US-PATENT-CLASS-528-210	US-PATENT-4,300,106
N81-32829*	c 51	US-PATENT-CLASS-91-410	US-PATENT-CLASS-528-211	N82-13465* c 43
		US-PATENT-4,283,995	US-PATENT-CLASS-528-225	NASA-CASE-GSC-12032-2
		NASA-CASE-MFS-23825-1	US-PATENT-CLASS-528-228	US-PATENT-APPL-SN-578700
		US-PATENT-APPL-SN-145273	US-PATENT-CLASS-528-351	US-PATENT-APPL-SN-583219
		US-PATENT-CLASS-119-17	US-PATENT-CLASS-528-353	US-PATENT-CLASS-250-235
N81-33235*	c 24	US-PATENT-CLASS-119-18	US-PATENT-4,284,461	US-PATENT-CLASS-250-236
		US-PATENT-4,284,034	N82-11336* c 32	US-PATENT-CLASS-358-109
		NASA-CASE-LAR-12065-2	NASA-CASE-MSC-18606-1	US-PATENT-4,300,159
		US-PATENT-APPL-SN-119337	US-PATENT-APPL-SN-145206	N82-15381* c 35
		US-PATENT-APPL-SN-889671	US-PATENT-CLASS-343-700MS	NASA-CASE-NPO-14839-1
N81-33246*	c 25	US-PATENT-CLASS-156-242	US-PATENT-CLASS-343-708	US-PATENT-APPL-SN-106119
		US-PATENT-CLASS-156-245	US-PATENT-CLASS-343-727	US-PATENT-CLASS-343-100PE
		US-PATENT-CLASS-156-252	US-PATENT-CLASS-343-795	US-PATENT-CLASS-455-137
		US-PATENT-CLASS-156-264	US-PATENT-CLASS-343-846	US-PATENT-CLASS-455-139
		US-PATENT-CLASS-156-285	US-PATENT-4,287,518	US-PATENT-CLASS-455-60
N81-33246*	c 25	US-PATENT-CLASS-156-290	N82-11357* c 33	US-PATENT-4,295,140
		US-PATENT-4,229,473	NASA-CASE-MSC-18106-1	N82-16059* c 04
		US-PATENT-4,274,901	US-PATENT-APPL-SN-098568	NASA-CASE-ARC-10990-1
		NASA-CASE-NPO-14272-1	US-PATENT-CLASS-335-256	US-PATENT-APPL-SN-749420
		US-PATENT-APPL-SN-878253	US-PATENT-CLASS-335-266	US-PATENT-CLASS-244-114R
N81-33319*	c 31	US-PATENT-CLASS-201-17	US-PATENT-CLASS-361-141	US-PATENT-CLASS-340-26
		US-PATENT-CLASS-44-1R	US-PATENT-4,295,111	US-PATENT-4,291,294
		US-PATENT-CLASS-44-2	N82-11360* # c 33	N82-16075* c 06
		US-PATENT-4,146,367	NASA-CASE-MFS-25586-1	NASA-CASE-FRC-11005-1
		NASA-CASE-NPO-14596-1	US-PATENT-APPL-SN-310714	US-PATENT-APPL-SN-043942
N81-33340*	c 33	US-PATENT-APPL-SN-037072	NASA-CASE-LEW-12950-1	US-PATENT-CLASS-340-27NA
		US-PATENT-CLASS-264-24	US-PATENT-APPL-SN-202228	US-PATENT-CLASS-73-178R
		US-PATENT-CLASS-264-5	N82-11431* c 35	US-PATENT-4,283,705
		US-PATENT-CLASS-264-9	NASA-CASE-LAR-12552-1	N82-16174* c 23
		US-PATENT-CLASS-425-6	US-PATENT-APPL-SN-070366	NASA-CASE-ARC-11244-1
N81-33403*	c 33	US-PATENT-CLASS-425-6	US-PATENT-CLASS-235-92PC	US-PATENT-APPL-SN-054501
		US-PATENT-CLASS-65-142	US-PATENT-CLASS-324-71CP	US-PATENT-CLASS-260-340.9R
		US-PATENT-CLASS-65-21.4	US-PATENT-4,286,209	US-PATENT-CLASS-568-445
		US-PATENT-CLASS-65-22	N82-11432* c 35	US-PATENT-CLASS-568-497
		US-PATENT-4,279,632	NASA-CASE-MFS-23250-1	US-PATENT-4,277,402
N81-33404*	c 33	NASA-CASE-GSC-12324-1	US-PATENT-APPL-SN-119340	N82-16238* c 27
		US-PATENT-APPL-SN-945043	US-PATENT-CLASS-422-40	NASA-CASE-MSC-18382-1
		US-PATENT-CLASS-358-109	US-PATENT-CLASS-430-17	US-PATENT-APPL-SN-145107
		US-PATENT-4,280,141	US-PATENT-CLASS-430-372	US-PATENT-CLASS-106-18.16
		NASA-CASE-NPO-14316-1	US-PATENT-4,287,152	US-PATENT-CLASS-106-18.24
N81-33405*	c 33	US-PATENT-APPL-SN-051276	N82-11469* # c 37	US-PATENT-CLASS-260-45.7R
		US-PATENT-CLASS-363-24	NASA-CASE-NPO-15539-1	US-PATENT-CLASS-427-393.3
		US-PATENT-CLASS-363-56	US-PATENT-APPL-SN-303670	US-PATENT-CLASS-428-263
		US-PATENT-4,276,588	N82-11634* c 45	US-PATENT-CLASS-428-264
		NASA-CASE-NPO-14435-1	NASA-CASE-NPO-13877-1	US-PATENT-CLASS-428-265
N81-33448*	c 35	US-PATENT-APPL-SN-017886	US-PATENT-APPL-SN-652979	US-PATENT-CLASS-428-267
		US-PATENT-CLASS-329-122	US-PATENT-CLASS-210-40	US-PATENT-CLASS-428-272
		US-PATENT-CLASS-331-DIG.2	US-PATENT-CLASS-252-422	US-PATENT-4,284,682
		US-PATENT-CLASS-364-514	US-PATENT-4,209,393	N82-16340* c 33
		US-PATENT-CLASS-375-1	N82-11770* c 52	NASA-CASE-GSC-12420-1
N81-33482*	c 37	US-PATENT-4,279,018	NASA-CASE-MSC-14836-1	US-PATENT-APPL-SN-129793
		NASA-CASE-NPO-14258-1	US-PATENT-APPL-SN-691647	US-PATENT-CLASS-333-104
		US-PATENT-APPL-SN-853349	US-PATENT-CLASS-128-327	US-PATENT-CLASS-333-246
		US-PATENT-APPL-SN-972252	US-PATENT-CLASS-128-686	US-PATENT-4,302,734
		US-PATENT-CLASS-350-370	US-PATENT-CLASS-128-691	N82-16396* c 36
N81-33483*	c 37	US-PATENT-CLASS-356-350	US-PATENT-4,294,261	NASA-CASE-GSC-12321-1
		US-PATENT-CLASS-356-351	N82-12166* c 25	US-PATENT-APPL-SN-102001
		US-PATENT-4,280,766	NASA-CASE-MSC-16497-1	US-PATENT-CLASS-356-349
		NASA-CASE-NPO-15227-1	US-PATENT-APPL-SN-041145	US-PATENT-CLASS-356-386
		US-PATENT-APPL-SN-163840	US-PATENT-CLASS-204-1T	US-PATENT-4,299,492
N81-33488*	c 09	US-PATENT-CLASS-118-50	US-PATENT-CLASS-204-195S	N82-16408* c 37
		US-PATENT-CLASS-269-21	US-PATENT-CLASS-204-263	NASA-CASE-MSC-18422-1
		US-PATENT-CLASS-427-240	US-PATENT-CLASS-204-264	US-PATENT-APPL-SN-102593
		US-PATENT-4,280,689	US-PATENT-CLASS-204-266	US-PATENT-CLASS-244-113
		NASA-CASE-FRC-11044-1	US-PATENT-CLASS-204-275	US-PATENT-CLASS-244-163
N81-33488*	c 09	US-PATENT-CLASS-318-663	US-PATENT-CLASS-204-276	US-PATENT-CLASS-244-217
		US-PATENT-CLASS-74-89	US-PATENT-CLASS-204-278	US-PATENT-CLASS-277-189
		US-PATENT-CLASS-92-130R	US-PATENT-CLASS-23-230PC	US-PATENT-CLASS-277-81R
		US-PATENT-4,274,038	US-PATENT-CLASS-23-232E	US-PATENT-CLASS-418-113
		NASA-CASE-LAR-12532-1	US-PATENT-CLASS-422-80	US-PATENT-CLASS-418-142
N82-11088*	c 09	US-PATENT-APPL-SN-135040	US-PATENT-4,293,522	US-PATENT-4,290,612
		US-PATENT-CLASS-73-147	N82-12297* c 32	N82-16474* c 44
		US-PATENT-4,286,460	NASA-CASE-NPO-14054-1	NASA-CASE-MFS-23775-1
		NASA-CASE-NPO-14273-1	US-PATENT-APPL-SN-969761	US-PATENT-APPL-SN-098569
		US-PATENT-APPL-SN-969759	US-PATENT-CLASS-343-5CM	US-PATENT-CLASS-73-341
N82-11144*	c 25	US-PATENT-CLASS-110-234	US-PATENT-4,292,634	US-PATENT-4,282,752
		US-PATENT-CLASS-110-245	N82-12441* c 37	N82-16475* c 44
		US-PATENT-CLASS-110-255	NASA-CASE-MFS-25363-1	NASA-CASE-NPO-15071-1
		US-PATENT-CLASS-110-266	US-PATENT-APPL-SN-171933	US-PATENT-APPL-SN-150115
		US-PATENT-CLASS-122-4D	US-PATENT-CLASS-118-423	US-PATENT-CLASS-126-438
N82-11206*	c 27	US-PATENT-4,287,838	US-PATENT-CLASS-118-500	US-PATENT-CLASS-250-527
		NASA-CASE-LAR-12640-1	US-PATENT-CLASS-134-137	US-PATENT-CLASS-48-89
		US-PATENT-APPL-SN-092142	US-PATENT-4,286,542	US-PATENT-4,290,779
		US-PATENT-CLASS-156-307.7	N82-12442* c 37	N82-16747* c 60
		US-PATENT-CLASS-156-307.3	NASA-CASE-LEW-12989-1	NASA-CASE-GSC-12430-1
N82-11206*	c 27	US-PATENT-CLASS-156-307.5	US-PATENT-APPL-SN-092145	US-PATENT-APPL-SN-129779
		US-PATENT-CLASS-156-331.5	US-PATENT-CLASS-277-27	US-PATENT-CLASS-370-100
		US-PATENT-CLASS-528-126	US-PATENT-CLASS-277-40	US-PATENT-CLASS-375-106
		US-PATENT-CLASS-528-172	US-PATENT-CLASS-277-93R	US-PATENT-CLASS-375-114
			US-PATENT-4,291,887	US-PATENT-4,298,987
N82-11206*	c 27		N82-12685* c 46	N82-16800* c 71
			NASA-CASE-NPO-14544-1	NASA-CASE-FRC-11062-1
			US-PATENT-APPL-SN-078612	US-PATENT-APPL-SN-185869
			US-PATENT-CLASS-343-100ME	US-PATENT-CLASS-181-214
			US-PATENT-CLASS-343-100PE	US-PATENT-4,300,656
N82-11206*	c 27		US-PATENT-CLASS-343-781P	N82-18314* c 20
			US-PATENT-4,282,525	NASA-CASE-GSC-12194-2
			N82-13376* c 34	US-PATENT-APPL-SN-819029
			NASA-CASE-MFS-26139-1	US-PATENT-APPL-SN-971474
			US-PATENT-APPL-SN-126138	US-PATENT-CLASS-60-200R
N82-11206*	c 27		US-PATENT-CLASS-239-499	US-PATENT-CLASS-60-39.46M
			US-PATENT-CLASS-239-589	US-PATENT-4,288,982
			US-PATENT-CLASS-239-601	N82-18389* c 27
			US-PATENT-4,300,723	NASA-CASE-ARC-11176-1
			N82-13415* c 36	

		US-PATENT-APPL-SN-129799		US-PATENT-APPL-SN-672209		US-PATENT-CLASS-428-448
		US-PATENT-CLASS-528-168		US-PATENT-APPL-SN-796258		US-PATENT-CLASS-428-49
		US-PATENT-CLASS-528-399		US-PATENT-CLASS-128-1.2		US-PATENT-4,308,309
		US-PATENT-CLASS-528-4		US-PATENT-CLASS-128-778	N82-24340*	c 27 NASA-CASE-MFS-25181-1
		US-PATENT-CLASS-528-6		US-PATENT-CLASS-33-143C		US-PATENT-APPL-SN-218585
		US-PATENT-CLASS-528-7		US-PATENT-4,294,264		US-PATENT-CLASS-156-315
		US-PATENT-CLASS-568-2	N82-23231*	c 04 NASA-CASE-FRC-11052-1		US-PATENT-CLASS-156-338
		US-PATENT-CLASS-568-4		US-PATENT-APPL-SN-129783		US-PATENT-CLASS-428-332
		US-PATENT-CLASS-568-5		US-PATENT-CLASS-244-168		US-PATENT-CLASS-428-339
N82-18401*	c 28	US-PATENT-4,288,585		US-PATENT-CLASS-244-175		US-PATENT-CLASS-428-462
		NASA-CASE-ARC-11245-1		US-PATENT-CLASS-244-190		US-PATENT-CLASS-428-466
		US-PATENT-APPL-SN-088663		US-PATENT-CLASS-318-580		US-PATENT-CLASS-428-493
		US-PATENT-CLASS-239-690	N82-23254*	c 09 US-PATENT-4,326,685	N82-24415*	c 33 US-PATENT-4,327,150
		US-PATENT-CLASS-361-226		NASA-CASE-LAR-12441-1		NASA-CASE-LEW-13282-1
		US-PATENT-CLASS-361-230		US-PATENT-APPL-SN-145210		US-PATENT-APPL-SN-073579
		US-PATENT-4,303,961		US-PATENT-CLASS-73-147		US-PATENT-CLASS-315-3.6
N82-18443*	c 32	NASA-CASE-NPO-14632-1		US-PATENT-4,327,581		US-PATENT-CLASS-315-5.38
		US-PATENT-APPL-SN-092143	N82-23282*	c 25 NASA-CASE-NPO-14542-1		US-PATENT-4,277,721
		US-PATENT-CLASS-367-100		US-PATENT-APPL-SN-030831	N82-24416*	c 33 NASA-CASE-LAR-12633-1
		US-PATENT-CLASS-367-102		US-PATENT-CLASS-166-267		US-PATENT-APPL-SN-135039
		US-PATENT-CLASS-367-88		US-PATENT-CLASS-166-303		US-PATENT-CLASS-358-213
		US-PATENT-4,287,578		US-PATENT-CLASS-208-241		US-PATENT-4,279,001
N82-18493*	c 33	NASA-CASE-FRC-11041-1	N82-23376*	c 32 US-PATENT-4,310,049	N82-24417*	c 33 NASA-CASE-FRC-11025-1
		US-PATENT-APPL-SN-126064		NASA-CASE-NPO-14361-1		US-PATENT-APPL-SN-115536
		US-PATENT-CLASS-318-561		US-PATENT-APPL-SN-053572		US-PATENT-CLASS-328-167
		US-PATENT-CLASS-318-620		US-PATENT-CLASS-343-17.1PF		US-PATENT-CLASS-330-109
		US-PATENT-CLASS-318-621		US-PATENT-CLASS-343-5DP		US-PATENT-CLASS-330-290
		US-PATENT-CLASS-318-622		US-PATENT-CLASS-343-7.5		US-PATENT-CLASS-330-294
		US-PATENT-4,298,833		US-PATENT-CLASS-356-5		US-PATENT-CLASS-330-306
N82-18494*	c 33	NASA-CASE-FRC-11014-1		US-PATENT-CLASS-367-95		US-PATENT-CLASS-364-825
		US-PATENT-APPL-SN-053652		US-PATENT-4,320,397		US-PATENT-4,275,453
		US-PATENT-CLASS-331-113R	N82-24072*	c 74 NASA-CASE-NPO-14813-1	N82-24418*	c 33 NASA-CASE-NPO-14556-1
		US-PATENT-CLASS-363-132		US-PATENT-APPL-SN-145282		US-PATENT-APPL-SN-023485
		US-PATENT-CLASS-363-17		US-PATENT-CLASS-250-216		US-PATENT-CLASS-307-415
		US-PATENT-CLASS-363-61		US-PATENT-CLASS-250-235		US-PATENT-CLASS-328-67
		US-PATENT-4,298,926		US-PATENT-4,320,290		US-PATENT-CLASS-331-94.5G
N82-18601*	c 37	NASA-CASE-LAR-12372-1	N82-24205*	c 08 NASA-CASE-LAR-12412-1		US-PATENT-CLASS-331-94.5PE
		US-PATENT-APPL-SN-108107		US-PATENT-APPL-SN-067595		US-PATENT-CLASS-333-20
		US-PATENT-CLASS-188-371		US-PATENT-CLASS-244-213		US-PATENT-4,275,317
		US-PATENT-CLASS-244-110C		US-PATENT-CLASS-244-226	N82-24419*	c 33 NASA-CASE-GSC-12415-1
		US-PATENT-CLASS-280-805		US-PATENT-CLASS-244-78		US-PATENT-APPL-SN-043943
		US-PATENT-CLASS-57-906		US-PATENT-CLASS-74-479		US-PATENT-CLASS-165-32
		US-PATENT-4,304,320		US-PATENT-CLASS-74-480R		US-PATENT-CLASS-62-383
N82-18686*	c 44	NASA-CASE-MFS-25287-1		US-PATENT-4,272,046		US-PATENT-4,281,708
		US-PATENT-APPL-SN-098570	N82-24212*	c 09 NASA-CASE-ARC-11158-1	N82-24420*	c 33 NASA-CASE-ARC-11116-1
		US-PATENT-CLASS-126-422		US-PATENT-APPL-SN-053566		US-PATENT-APPL-SN-069485
		US-PATENT-CLASS-126-429		US-PATENT-CLASS-434-42		US-PATENT-CLASS-324-51
		US-PATENT-CLASS-126-430		US-PATENT-CLASS-434-43		US-PATENT-CLASS-324-52
		US-PATENT-4,304,219		US-PATENT-4,313,726		US-PATENT-4,282,479
N82-19029*	c 74	NASA-CASE-NPO-15036-1	N82-24272*	c 15 NASA-CASE-ARC-11256-1	N82-24421*	c 33 NASA-CASE-GSC-12518-1
		US-PATENT-APPL-SN-188160		US-PATENT-APPL-SN-032305		US-PATENT-APPL-SN-119336
		US-PATENT-CLASS-455-610		US-PATENT-CLASS-102-504		US-PATENT-CLASS-310-12
		US-PATENT-CLASS-455-612		US-PATENT-CLASS-242-128		US-PATENT-CLASS-318-135
		US-PATENT-CLASS-455-615		US-PATENT-4,271,761		US-PATENT-CLASS-335-229
		US-PATENT-CLASS-455-617	N82-24296*	c 24 NASA-CASE-FRC-11026-1		US-PATENT-CLASS-335-266
		US-PATENT-4,287,606		US-PATENT-APPL-SN-043944		US-PATENT-4,315,197
N82-19540*	c 37	NASA-CASE-LEW-12131-3		US-PATENT-CLASS-228-157	N82-24422*	c 33 NASA-CASE-GSC-12595-1
		US-PATENT-APPL-SN-096255		US-PATENT-CLASS-244-119		US-PATENT-APPL-SN-206506
		US-PATENT-APPL-SN-801290		US-PATENT-CLASS-244-123		US-PATENT-CLASS-336-120
		US-PATENT-APPL-SN-931090		US-PATENT-CLASS-428-593		US-PATENT-CLASS-336-83
		US-PATENT-CLASS-415-174		US-PATENT-CLASS-428-594		US-PATENT-4,321,572
		US-PATENT-CLASS-415-196		US-PATENT-CLASS-428-604	N82-24427* #	c 33 NASA-CASE-MS-18407-1
		US-PATENT-4,135,851		US-PATENT-4,292,375		US-PATENT-APPL-SN-293419
		US-PATENT-4,207,024	N82-24312*	c 25 NASA-CASE-ARC-11097-1	N82-24470*	c 35 NASA-CASE-LAR-12321-1
		US-PATENT-4,295,786		US-PATENT-APPL-SN-891872		US-PATENT-APPL-SN-178195
N82-20544* #	c 37	NASA-CASE-LAR-12801-1		US-PATENT-CLASS-260-386		US-PATENT-CLASS-260-386
		US-PATENT-APPL-SN-309291		US-PATENT-CLASS-260-389		US-PATENT-CLASS-338-25
N82-21268*	c 25	NASA-CASE-LEW-12358-2		US-PATENT-CLASS-528-402		US-PATENT-CLASS-338-275
		US-PATENT-APPL-SN-776146		US-PATENT-CLASS-570-123		US-PATENT-CLASS-338-28
		US-PATENT-APPL-SN-848428		US-PATENT-CLASS-570-129		US-PATENT-4,317,102
		US-PATENT-CLASS-264-216		US-PATENT-4,307,024	N82-24471*	c 35 NASA-CASE-GSC-12354-1
		US-PATENT-CLASS-264-453	N82-24338*	c 27 NASA-CASE-ARC-11253-2		US-PATENT-APPL-SN-128229
		US-PATENT-CLASS-264-53		US-PATENT-APPL-SN-028301		US-PATENT-CLASS-250-385
		US-PATENT-CLASS-427-115		US-PATENT-APPL-SN-145284		US-PATENT-CLASS-250-386
		US-PATENT-CLASS-427-244		US-PATENT-CLASS-528-310		US-PATENT-CLASS-250-389
		US-PATENT-CLASS-427-246		US-PATENT-CLASS-528-328		US-PATENT-CLASS-29-25.14
		US-PATENT-4,133,941		US-PATENT-CLASS-528-362		US-PATENT-CLASS-313-348
		US-PATENT-4,309,372		US-PATENT-CLASS-528-401		US-PATENT-CLASS-313-93
N82-21269*	c 25	NASA-CASE-XLA-8914-2		US-PATENT-CLASS-528-422		US-PATENT-4,325,001
		US-PATENT-APPL-SN-662181		US-PATENT-4,273,918	N82-24490*	c 37 NASA-CASE-LAR-12315-1
		US-PATENT-APPL-SN-810576	N82-24339*	c 27 NASA-CASE-ARC-11310-1		US-PATENT-APPL-SN-096257
		US-PATENT-CLASS-210-321.1		US-PATENT-APPL-SN-147700		US-PATENT-CLASS-220-378
		US-PATENT-CLASS-55-158		US-PATENT-CLASS-102-289		US-PATENT-CLASS-277-1
		US-PATENT-4,302,223		US-PATENT-CLASS-244-121		US-PATENT-CLASS-277-105
N82-21587*	c 37	NASA-CASE-NPO-14395-1		US-PATENT-CLASS-244-158A		US-PATENT-CLASS-277-2
		US-PATENT-APPL-SN-961833		US-PATENT-CLASS-244-160		US-PATENT-CLASS-277-204
		US-PATENT-CLASS-104-83		US-PATENT-CLASS-428-192		US-PATENT-CLASS-277-4
		US-PATENT-CLASS-105-1A		US-PATENT-CLASS-428-193		US-PATENT-CLASS-277-59
		US-PATENT-CLASS-105-171		US-PATENT-CLASS-428-241		US-PATENT-CLASS-277-72R
		US-PATENT-CLASS-105-180		US-PATENT-CLASS-428-242		US-PATENT-CLASS-285-37
		US-PATENT-CLASS-105-218R		US-PATENT-CLASS-428-245		US-PATENT-4,309,039
		US-PATENT-CLASS-248-425		US-PATENT-CLASS-428-251	N82-24491*	c 37 NASA-CASE-MS-18430-1
		US-PATENT-4,301,740		US-PATENT-CLASS-428-257		US-PATENT-APPL-SN-113015
N82-22496* #	c 37	NASA-CASE-ARC-11325-1		US-PATENT-CLASS-428-260		US-PATENT-CLASS-156-84
		US-PATENT-APPL-SN-354126		US-PATENT-CLASS-428-266		US-PATENT-CLASS-156-85
N82-22875*	c 52	NASA-CASE-GSC-12081-2		US-PATENT-CLASS-428-447		US-PATENT-CLASS-156-86

				US-PATENT-CLASS-264-230				US-PATENT-4,315,194				US-PATENT-4,314,984
				US-PATENT-CLASS-264-342R		N82-26569*	c 33	NASA-CASE-MFS-23828-1	N82-28440*	c 27	NASA-CASE-LEW-13120-1	
				US-PATENT-4,269,640				US-PATENT-APPL-SN-111436			US-PATENT-APPL-SN-218587	
N82-24492*	c 37			NASA-CASE-ARC-111110-1				US-PATENT-CLASS-318-254			US-PATENT-CLASS-204-192E	
				US-PATENT-APPL-SN-945040				US-PATENT-CLASS-318-806			US-PATENT-CLASS-204-192EC	
				US-PATENT-CLASS-118-320				US-PATENT-CLASS-318-812			US-PATENT-CLASS-264-22	
				US-PATENT-CLASS-118-500				US-PATENT-CLASS-318-830			US-PATENT-CLASS-264-220	
				US-PATENT-CLASS-118-503				US-PATENT-4,313,077			US-PATENT-CLASS-428-141	
				US-PATENT-CLASS-118-505		N82-26570*	c 33	NASA-CASE-LAR-12659-1	N82-28441*	c 27	US-PATENT-4,329,385	
				US-PATENT-CLASS-427-425				US-PATENT-APPL-SN-171928			NASA-CASE-LEW-13343-1	
				US-PATENT-4,312,292				US-PATENT-CLASS-340-347DD			US-PATENT-APPL-SN-161254	
N82-24493*	c 37			NASA-CASE-NPO-15115-1				US-PATENT-4,313,103			US-PATENT-CLASS-427-205	
				US-PATENT-APPL-SN-154725		N82-26571*	c 33	NASA-CASE-LAR-12595-1			US-PATENT-CLASS-427-253	
				US-PATENT-CLASS-74-18.1				US-PATENT-APPL-SN-070774			US-PATENT-CLASS-427-405	
				US-PATENT-CLASS-74-18.2				US-PATENT-CLASS-156-157			US-PATENT-CLASS-428-938	
				US-PATENT-CLASS-92-37				US-PATENT-CLASS-156-272			US-PATENT-CLASS-428-941	
				US-PATENT-4,311,057				US-PATENT-CLASS-156-379.7			US-PATENT-4,310,574	
N82-24494*	c 37			NASA-CASE-MSC-18526-1				US-PATENT-CLASS-156-71	N82-28442*	c 27	NASA-CASE-NPO-14845-1	
				US-PATENT-APPL-SN-119335				US-PATENT-CLASS-219-10.41			US-PATENT-APPL-SN-219680	
				US-PATENT-CLASS-285-159				US-PATENT-CLASS-219-10.53			US-PATENT-CLASS-264-5	
				US-PATENT-CLASS-285-401				US-PATENT-CLASS-219-545			US-PATENT-CLASS-425-6	
				US-PATENT-CLASS-285-89				US-PATENT-CLASS-428-247			US-PATENT-CLASS-65-142	
				US-PATENT-CLASS-403-315				US-PATENT-4,313,777			US-PATENT-CLASS-65-21.4	
				US-PATENT-4,320,911		N82-26572*	c 33	NASA-CASE-LAR-12465-1			US-PATENT-CLASS-65-22	
N82-24639*	c 44			NASA-CASE-MFS-23830-1				US-PATENT-APPL-SN-106136	N82-28545*	c 33	NASA-CASE-MFS-23776-1	
				US-PATENT-APPL-SN-129780				US-PATENT-CLASS-361-283			US-PATENT-APPL-SN-145272	
				US-PATENT-CLASS-415-DIG.8				US-PATENT-CLASS-367-181			US-PATENT-CLASS-250-214	
				US-PATENT-CLASS-415-2R				US-PATENT-CLASS-73-724			US-PATENT-CLASS-250-221	
				US-PATENT-4,309,146				US-PATENT-4,310,906			US-PATENT-4,319,133	
N82-24640*	c 44			NASA-CASE-LAR-12148-1		N82-26628*	c 35	NASA-CASE-LAR-12474-1	N82-28549* #	c 33	NASA-CASE-MSC-20181-1	
				US-PATENT-APPL-SN-051275				US-PATENT-APPL-SN-171934			US-PATENT-APPL-SN-392093	
				US-PATENT-CLASS-60-516				US-PATENT-CLASS-352-171			US-PATENT-APPL-SN-12709-1	
				US-PATENT-CLASS-60-641.14				US-PATENT-CLASS-354-217	N82-28604*	c 35	NASA-CASE-LAR-12709-1	
				US-PATENT-4,326,381				US-PATENT-CLASS-354-289			US-PATENT-APPL-SN-235796	
N82-24641*	c 44			NASA-CASE-GSC-10019-1				US-PATENT-4,311,378			US-PATENT-CLASS-204-195B	
				US-PATENT-APPL-SN-680048		N82-26631* #	c 35	NASA-CASE-MFS-25707-1			US-PATENT-CLASS-435-291	
				US-PATENT-CLASS-136-6				US-PATENT-APPL-SN-359627			US-PATENT-CLASS-435-34	
				US-PATENT-3,498,841		N82-26672*	c 37	NASA-CASE-MSC-18538-1			US-PATENT-CLASS-435-39	
N82-24642*	c 44			NASA-CASE-GSC-10350-1				US-PATENT-APPL-SN-138944			US-PATENT-4,335,206	
				US-PATENT-APPL-SN-679980				US-PATENT-CLASS-30-102	N82-28616*	c 36	NASA-CASE-NPO-14782-1	
				US-PATENT-CLASS-136-6				US-PATENT-4,305,205			US-PATENT-APPL-SN-119339	
				US-PATENT-3,498,840		N82-26673* #	c 37	NASA-CASE-MSC-18742-1			US-PATENT-CLASS-330-4.3	
N82-24643*	c 44			NASA-CASE-GSC-10017-1				US-PATENT-APPL-SN-293417			US-PATENT-CLASS-372-56	
				US-PATENT-APPL-SN-679996		N82-26674* #	c 37	NASA-CASE-LEW-13268-2			US-PATENT-CLASS-372-58	
				US-PATENT-CLASS-136-6				US-PATENT-APPL-SN-325931			US-PATENT-CLASS-372-82	
				US-PATENT-3,519,484		N82-26776*	c 44	NASA-CASE-NPO-15183-1			US-PATENT-4,328,464	
N82-24644*	c 44			NASA-CASE-GSC-10018-1				US-PATENT-APPL-SN-173519	N82-28780*	c 44	NASA-CASE-NPO-13689-4	
				US-PATENT-APPL-SN-679987				US-PATENT-CLASS-62-148			US-PATENT-APPL-SN-225501	
				US-PATENT-CLASS-136-6				US-PATENT-CLASS-62-235.1			US-PATENT-APPL-SN-597430	
				US-PATENT-3,519,483				US-PATENT-CLASS-62-238.3			US-PATENT-APPL-SN-683073	
N82-24645*	c 44			NASA-CASE-GSC-10349-1				US-PATENT-CLASS-62-239			US-PATENT-APPL-SN-837513	
				US-PATENT-APPL-SN-658999				US-PATENT-CLASS-62-244			US-PATENT-APPL-SN-93714	
				US-PATENT-CLASS-136-148				US-PATENT-CLASS-62-476			US-PATENT-CLASS-148-175	
				US-PATENT-3,506,496				US-PATENT-4,307,575			US-PATENT-CLASS-29-572	
N82-24779*	c 47			NASA-CASE-KSC-11099-1		N82-26777*	c 44	NASA-CASE-NPO-15179-1			US-PATENT-CLASS-427-531	
				US-PATENT-APPL-SN-043945				US-PATENT-APPL-SN-185867			US-PATENT-CLASS-427-74	
				US-PATENT-CLASS-324-72				US-PATENT-CLASS-136-261			US-PATENT-4,278,830	
				US-PATENT-CLASS-324-77R				US-PATENT-CLASS-136-290			US-PATENT-4,321,099	
				US-PATENT-4,272,720				US-PATENT-CLASS-148-1.5	N82-29002*	c 54	NASA-CASE-XMS-03694-1	
N82-24839*	c 60			NASA-CASE-FRC-11042-1				US-PATENT-CLASS-219-121LN			US-PATENT-APPL-SN-394280	
				US-PATENT-APPL-SN-129778				US-PATENT-CLASS-357-30			US-PATENT-CLASS-165-46	
				US-PATENT-CLASS-254-131				US-PATENT-CLASS-357-63			US-PATENT-3,295,594	
				US-PATENT-CLASS-29-267				US-PATENT-4,311,870	N82-29013*	c 60	NASA-CASE-MSC-18498-1	
				US-PATENT-CLASS-29-764		N82-26987*	c 54	NASA-CASE-ARC-11314-1			US-PATENT-APPL-SN-173518	
				US-PATENT-4,307,510				US-PATENT-APPL-SN-168943			US-PATENT-CLASS-244-194	
N82-25484* #	c 35			NASA-CASE-NPO-15494-1				US-PATENT-CLASS-73-862.08			US-PATENT-CLASS-318-564	
				US-PATENT-APPL-SN-325885				US-PATENT-4,311,055			US-PATENT-CLASS-371-68	
N82-26277*	c 05			NASA-CASE-FRC-11007-2		N82-27086* #	c 71	NASA-CASE-NPO-15562-1			US-PATENT-4,327,437	
				US-PATENT-APPL-SN-043911				US-PATENT-APPL-SN-364097	N82-29330*	c 09	NASA-CASE-KSC-11042-1	
				US-PATENT-CLASS-244-12.2		N82-27558*	c 32	NASA-CASE-MSC-18532-1			US-PATENT-APPL-SN-154663	
				US-PATENT-CLASS-244-23C				US-PATENT-APPL-SN-172099			US-PATENT-APPL-SN-862878	
				US-PATENT-CLASS-244-34A				US-PATENT-CLASS-343-789			US-PATENT-CLASS-53-429	
				US-PATENT-CLASS-244-93				US-PATENT-CLASS-343-895			US-PATENT-CLASS-8-150	
				US-PATENT-4,307,856				US-PATENT-4,315,266			US-PATENT-4,244,810	
N82-26293*	c 07			NASA-CASE-LEW-13199-1		N82-28279*	c 05	NASA-CASE-LAR-12175-1			US-PATENT-4,313,291	
				US-PATENT-APPL-SN-025301				US-PATENT-APPL-SN-079913	N82-29358*	c 23	NASA-CASE-LAR-10423-1	
				US-PATENT-CLASS-244-110B				US-PATENT-CLASS-244-48			US-PATENT-APPL-SN-877445	
				US-PATENT-CLASS-60-226A				US-PATENT-4,330,100			US-PATENT-CLASS-260-65	
				US-PATENT-4,278,220		N82-28353*	c 23	NASA-CASE-ARC-11267-2			US-PATENT-3,657,190	
N82-26384*	c 24			NASA-CASE-LAR-11688-1				US-PATENT-APPL-SN-163838	N82-29362*	c 24	NASA-CASE-MSC-18223-1	
				US-PATENT-APPL-SN-878540				US-PATENT-CLASS-528-401			US-PATENT-APPL-SN-219681	
				US-PATENT-CLASS-244-119				US-PATENT-CLASS-528-422			US-PATENT-CLASS-128-280	
				US-PATENT-CLASS-244-123				US-PATENT-CLASS-547-131			US-PATENT-CLASS-128-283	
				US-PATENT-CLASS-244-132				US-PATENT-CLASS-564-229			US-PATENT-CLASS-128-284	
				US-PATENT-4,310,132				US-PATENT-4,316,035			US-PATENT-CLASS-128-285	
N82-26387* #	c 24			NASA-CASE-MSC-18934-3		N82-28368*	c 25	NASA-CASE-NPO-15015-1			US-PATENT-CLASS-128-288	
				US-PATENT-APPL-SN-361711				US-PATENT-APPL-SN-145207			US-PATENT-CLASS-128-291	
N82-26396*	c 25			NASA-CASE-LAR-12705-1				US-PATENT-CLASS-203-12			US-PATENT-CLASS-128-296	
				US-PATENT-APPL-SN-135058				US-PATENT-CLASS-422-186			US-PATENT-CLASS-428-283	
				US-PATENT-CLASS-252-514				US-PATENT-CLASS-422-198			US-PATENT-CLASS-428-284	
				US-PATENT-4,311,615				US-PATENT-CLASS-423-235			US-PATENT-CLASS-428-286	
N82-26568*	c 33			NASA-CASE-LEW-12296-1				US-PATENT-CLASS-423-539			US-PATENT-CLASS-428-287	
				US-PATENT-APPL-SN-122966				US-PATENT-CLASS-423-540			US-PATENT-CLASS-428-288	
				US-PATENT-CLASS-315-3.5				US-PATENT-CLASS-423-542			US-PATENT-4,338,371	
				US-PATENT-CLASS-315-3.6				US-PATENT-CLASS-423-579	N82-29370*	c 25	NASA-CASE-XGS-05584-1	
				US-PATENT-CLASS-330-43				US-PATENT-CLASS-423-648R			NASA-CASE-XGS-07375-1	

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N83-10501*	c 44	US-PATENT-4,350,574	N83-17588* #	c 20	US-PATENT-CLASS-350-171	N83-20789*	c 76	US-PATENT-CLASS-364-559
		NASA-CASE-NPO-14369-1			US-PATENT-4,362,361			US-PATENT-CLASS-73-379
		US-PATENT-APPL-SN-126063			NASA-CASE-MFS-25843-1			US-PATENT-4,375,674
N83-10900*	c 74	US-PATENT-CLASS-422-200	N83-17628* #	c 25	US-PATENT-APPL-SN-444125	N83-20944*	c 07	NASA-CASE-NPO-15625-1
		US-PATENT-CLASS-422-202			NASA-CASE-LEW-13609-1			US-PATENT-APPL-SN-325933
		US-PATENT-CLASS-422-224			US-PATENT-APPL-SN-452465			US-PATENT-CLASS-148-173
N83-13171*	c 24	US-PATENT-CLASS-55-204	N83-18908*	c 27	NASA-CASE-MSC-18832-1	N83-20996*	c 18	US-PATENT-CLASS-148-175
		US-PATENT-4,343,772			US-PATENT-APPL-SN-365950			US-PATENT-CLASS-156-608
		NASA-CASE-GSC-12608-1			US-PATENT-CLASS-428-241			US-PATENT-CLASS-156-624
N83-13172*	c 24	US-PATENT-APPL-SN-195228	N83-18975*	c 32	US-PATENT-CLASS-428-244	N83-21238* #	c 33	US-PATENT-CLASS-156-635
		US-PATENT-CLASS-350-170			US-PATENT-CLASS-428-245			US-PATENT-CLASS-156-654
		US-PATENT-CLASS-350-286			US-PATENT-CLASS-428-260			US-PATENT-CLASS-156-662
N83-13188*	c 25	US-PATENT-4,350,410	N83-18996*	c 33	US-PATENT-CLASS-428-331	N83-21312*	c 35	US-PATENT-4,373,989
		NASA-CASE-MSC-18737-1			US-PATENT-CLASS-428-368			NASA-CASE-MFS-23981-1
		US-PATENT-APPL-SN-266256			US-PATENT-CLASS-428-902	N83-21503*	c 44	US-PATENT-APPL-SN-231543
N83-13187*	c 25	US-PATENT-CLASS-427-379	N83-19015*	c 34	US-PATENT-CLASS-428-913			US-PATENT-CLASS-244-159
		US-PATENT-CLASS-427-384			US-PATENT-CLASS-428-920			US-PATENT-CLASS-244-173
		US-PATENT-CLASS-427-387			US-PATENT-4,373,003	N83-21504*	c 44	US-PATENT-CLASS-322-2R
N83-13186*	c 25	US-PATENT-CLASS-428-218	N83-19091*	c 37	US-PATENT-4,373,003			US-PATENT-CLASS-339-3R
		US-PATENT-4,358,486			NASA-CASE-NPO-14998-1			US-PATENT-CLASS-339-5R
		NASA-CASE-MSC-18736-1			US-PATENT-APPL-SN-195547	N83-21785*	c 52	US-PATENT-CLASS-343-DIG2
N83-13187*	c 25	US-PATENT-CLASS-244-158A	N83-19596*	c 74	US-PATENT-CLASS-250-203R			US-PATENT-4,377,266
		US-PATENT-CLASS-427-140			US-PATENT-CLASS-343-100CL	N83-21949*	c 74	NASA-CASE-LEW-13269-1
		US-PATENT-CLASS-427-292			US-PATENT-CLASS-343-5CM			US-PATENT-APPL-SN-242795
N83-13187*	c 25	US-PATENT-CLASS-427-302	N83-19597*	c 74	US-PATENT-CLASS-364-822	N83-24572* #	c 25	US-PATENT-CLASS-415-174
		US-PATENT-CLASS-427-379			US-PATENT-CLASS-364-861			US-PATENT-CLASS-415-197
		US-PATENT-CLASS-427-384			US-PATENT-4,371,946	N83-24763*	c 33	US-PATENT-4,377,371
N83-13187*	c 25	US-PATENT-CLASS-428-63	N83-19715* #	c 02	US-PATENT-CLASS-356-394			NASA-CASE-ARC-11367-1
		US-PATENT-4,358,480			US-PATENT-CLASS-356-732			US-PATENT-APPL-SN-460511
		NASA-CASE-MFS-25306-1			NASA-CASE-MFS-25282-1	N83-25346*	c 52	NASA-CASE-LAR-12469-1
N83-13188*	c 25	US-PATENT-APPL-SN-309293	N83-19737*	c 05	US-PATENT-APPL-SN-263828			US-PATENT-APPL-SN-195223
		US-PATENT-CLASS-204-280R			US-PATENT-CLASS-378-2			US-PATENT-CLASS-250-338
		US-PATENT-CLASS-204-299R			US-PATENT-CLASS-378-43	N83-25378*	c 60	US-PATENT-CLASS-250-372
N83-13188*	c 25	US-PATENT-CLASS-204-299R	N83-19737*	c 05	US-PATENT-CLASS-378-43			US-PATENT-CLASS-250-474.1
		US-PATENT-4,358,358			US-PATENT-4,370,750			US-PATENT-CLASS-356-51
		NASA-CASE-LEW-13504-1			NASA-CASE-LAR-12361-1	N83-25378*	c 60	US-PATENT-4,372,680
N83-13188*	c 25	US-PATENT-APPL-SN-272234	N83-19737*	c 05	US-PATENT-APPL-SN-182880			NASA-CASE-MSC-18723-1
		US-PATENT-CLASS-264-104			US-PATENT-CLASS-411-353			US-PATENT-APPL-SN-234223
		US-PATENT-CLASS-429-206			US-PATENT-CLASS-411-517	N83-25378*	c 60	US-PATENT-CLASS-73-818
N83-13188*	c 25	US-PATENT-CLASS-429-253	N83-19737*	c 05	US-PATENT-CLASS-411-301			US-PATENT-4,377,089
		US-PATENT-CLASS-525-61			NASA-CASE-LEW-12253-1			NASA-CASE-LAR-12458-1
		US-PATENT-4,357,402			US-PATENT-APPL-SN-243682	N83-25378*	c 60	US-PATENT-APPL-SN-274705
N83-13188*	c 25	NASA-CASE-KSC-11025-1	N83-19737*	c 05	US-PATENT-CLASS-165-104.26			US-PATENT-CLASS-73-147
		US-PATENT-APPL-SN-061327			US-PATENT-CLASS-165-134R			US-PATENT-4,372,158
		US-PATENT-CLASS-371-6			US-PATENT-CLASS-29-157.3H	N83-25378*	c 60	NASA-CASE-LAR-12720-1
N83-13188*	c 25	US-PATENT-4,358,846	N83-19737*	c 05	US-PATENT-CLASS-437,377			US-PATENT-APPL-SN-274706
		NASA-CASE-GSC-12782-1			NASA-CASE-NPO-14864-1			US-PATENT-CLASS-73-147
		US-PATENT-APPL-SN-399074			US-PATENT-APPL-SN-061822	N83-25378*	c 60	US-PATENT-4,372,159
N83-13188*	c 25	US-PATENT-CLASS-136-256	N83-19737*	c 05	US-PATENT-CLASS-250-227			NASA-CASE-LEW-13107-1
		US-PATENT-CLASS-136-259			US-PATENT-CLASS-250-332			US-PATENT-APPL-SN-272407
		US-PATENT-CLASS-29-572			US-PATENT-CLASS-250-340	N83-25378*	c 60	US-PATENT-CLASS-604-8
N83-13188*	c 25	US-PATENT-CLASS-357-30	N83-19737*	c 05	US-PATENT-CLASS-250-351			US-PATENT-CLASS-604-8
		US-PATENT-CLASS-427-88			US-PATENT-CLASS-350-353			US-PATENT-4,377,169
		US-PATENT-CLASS-427-89			US-PATENT-4,362,198	N83-25378*	c 60	NASA-CASE-ARC-11354-1
N83-13188*	c 25	US-PATENT-CLASS-427-91	N83-19737*	c 05	NASA-CASE-LAR-12625-1			US-PATENT-APPL-SN-282192
		US-PATENT-CLASS-427-91			US-PATENT-APPL-SN-456915			US-PATENT-CLASS-356-357
		US-PATENT-4,335,196			NASA-CASE-FRC-11065-1	N83-25378*	c 60	US-PATENT-CLASS-73-147
N83-13188*	c 25	NASA-CASE-ARC-11311-1	N83-19737*	c 05	US-PATENT-APPL-SN-248744			US-PATENT-4,377,343
		US-PATENT-APPL-SN-219640			US-PATENT-CASE-244-121	N83-25378*	c 60	NASA-CASE-NPO-16135-1
		US-PATENT-CLASS-350-287			US-PATENT-CASE-244-129.4			US-PATENT-APPL-SN-470114
N83-13188*	c 25	US-PATENT-CLASS-350-486	N83-19737*	c 05	US-PATENT-CASE-282-254	N83-25378*	c 60	NASA-CASE-LAR-12363-2
		US-PATENT-4,355,870			US-PATENT-4,375,281			US-PATENT-APPL-SN-377892
		NASA-CASE-LEW-12892-1			NASA-CASE-NPO-14857-1	N83-25378*	c 60	US-PATENT-CLASS-250-388
N83-13188*	c 25	US-PATENT-APPL-SN-264380	N83-19737*	c 05	US-PATENT-APPL-SN-158530			US-PATENT-4,379,970
		US-PATENT-CLASS-136-255			US-PATENT-CLASS-523-205			NASA-CASE-MFS-25509-1
		US-PATENT-CLASS-136-256			US-PATENT-CLASS-524-436	N83-25378*	c 60	US-PATENT-APPL-SN-297486
N83-13188*	c 25	US-PATENT-CLASS-136-259	N83-19737*	c 05	US-PATENT-CLASS-524-437			US-PATENT-CLASS-156-DIG.62
		US-PATENT-4,360,701			US-PATENT-CLASS-524-503			US-PATENT-CLASS-34-57A
		NASA-CASE-MSC-18794-1			US-PATENT-CLASS-524-564	N83-25378*	c 60	US-PATENT-CLASS-432-227
N83-13188*	c 25	US-PATENT-APPL-SN-238785	N83-19737*	c 05	US-PATENT-CLASS-524-786			US-PATENT-CLASS-432-58
		US-PATENT-CLASS-417-399			US-PATENT-4,373,039			US-PATENT-4,378,209
		US-PATENT-CLASS-74-110			NASA-CASE-NPO-15789-1	N83-25378*	c 60	NASA-CASE-NPO-15220-1
N83-13188*	c 25	US-PATENT-4,360,325	N83-19737*	c 05	US-PATENT-APPL-SN-322316			US-PATENT-APPL-SN-246777
		NASA-CASE-LAR-12772-1			US-PATENT-CLASS-204-129.55			US-PATENT-CLASS-220-335
		US-PATENT-APPL-SN-199767			US-PATENT-CLASS-204-129.75	N83-25378*	c 60	US-PATENT-CLASS-73-863.31
N83-13188*	c 25	US-PATENT-CLASS-73-579	N83-19737*	c 05	US-PATENT-CLASS-437,396			US-PATENT-CLASS-73-863.63
		US-PATENT-CLASS-73-597			NASA-CASE-NPO-14035-1			US-PATENT-CLASS-73-864.63
		US-PATENT-CLASS-73-629			US-PATENT-APPL-SN-858767	N83-25378*	c 60	US-PATENT-4,377,949
N83-13188*	c 25	US-PATENT-CLASS-73-761	N83-19737*	c 05	US-PATENT-CLASS-343-100CL			NASA-CASE-NPO-15197-1
		US-PATENT-4,363,242			US-PATENT-CLASS-343-5CM			US-PATENT-APPL-SN-263957
		NASA-CASE-LAR-12847-1			US-PATENT-CLASS-343-9PS	N83-25378*	c 60	US-PATENT-CLASS-128-303B
N83-13188*	c 25	US-PATENT-APPL-SN-393456	N83-19737*	c 05	US-PATENT-4,371,873			US-PATENT-CLASS-128-774
		NASA-CASE-NPO-15213-1			NASA-CASE-ARC-11414-1			US-PATENT-CLASS-128-782
		US-PATENT-APPL-SN-280153			US-PATENT-APPL-SN-461714	N83-25378*	c 60	US-PATENT-4,378,813
N83-13188*	c 25	US-PATENT-CLASS-47-58	N83-19737*	c 05	NASA-CASE-MFS-25807			NASA-CASE-GSC-12223-1
		US-PATENT-CLASS-71-98			US-PATENT-APPL-SN-460733			US-PATENT-APPL-SN-041143
		US-PATENT-4,363,188			NASA-CASE-MSC-18929-1	N83-25378*	c 60	US-PATENT-CLASS-364-200
N83-13188*	c 25	NASA-CASE-LAR-12883-1	N83-19737*	c 05	US-PATENT-APPL-SN-198093			US-PATENT-4

		US-PATENT-CLASS-417-15			US-PATENT-CLASS-165-185			US-PATENT-APPL-SN-293418
		US-PATENT-CLASS-47-26			US-PATENT-CLASS-165-32			US-PATENT-CLASS-427-318
		US-PATENT-4,381,174			US-PATENT-CLASS-165-76			US-PATENT-CLASS-427-419.2
N83-27058*	c 31	NASA-CASE-GSC-12636-1	N83-28573*	c 44	NASA-CASE-LAR-12495-1			US-PATENT-CLASS-428-450
		US-PATENT-APPL-SN-173520			US-PATENT-APPL-SN-263830			US-PATENT-CLASS-428-469
		US-PATENT-CLASS-125-20			US-PATENT-CLASS-310-11			US-PATENT-CLASS-428-641
		US-PATENT-CLASS-408-1R			US-PATENT-4,388,542			US-PATENT-CLASS-428-650
		US-PATENT-CLASS-408-61	N83-28574*	c 44	NASA-CASE-GSC-12697-1	N83-31854*	c 27	NASA-CASE-ARC-11368-1
		US-PATENT-CLASS-409-131			US-PATENT-APPL-SN-308204			US-PATENT-APPL-SN-288267
		US-PATENT-4,383,785			US-PATENT-CLASS-308-10			US-PATENT-CLASS-548-413
N83-27085*	c 32	NASA-CASE-NPO-15401-1			US-PATENT-CLASS-310-15			US-PATENT-CLASS-548-415
		US-PATENT-APPL-SN-259210			US-PATENT-CLASS-417-17			US-PATENT-4,395,557
		US-PATENT-CLASS-333-22F			US-PATENT-CLASS-62-6	N83-31855*	c 27	NASA-CASE-LEW-1335901
		US-PATENT-CLASS-333-254			US-PATENT-4,389,849			US-PATENT-APPL-SN-229233
		US-PATENT-4,382,239	N83-28849*	c 51	NASA-CASE-ARC-11322-1			US-PATENT-CLASS-427-219.2
N83-27126*	c 33	NASA-CASE-NPO-15358-1			US-PATENT-APPL-SN-315278			US-PATENT-CLASS-427-34
		US-PATENT-APPL-SN-219968			US-PATENT-CLASS-435-3			US-PATENT-CLASS-427-405
		US-PATENT-CLASS-323-269			US-PATENT-CLASS-435-34			US-PATENT-CLASS-427-423
		US-PATENT-CLASS-323-303			US-PATENT-CLASS-435-38			US-PATENT-CLASS-428-623
		US-PATENT-CLASS-323-350			US-PATENT-CLASS-435-39			US-PATENT-CLASS-428-633
		US-PATENT-4,382,224			US-PATENT-CLASS-435-807			US-PATENT-CLASS-428-678
N83-27144*	c 34	NASA-CASE-LEW-13174-1			US-PATENT-4,386,157			US-PATENT-4,335,190
		US-PATENT-APPL-SN-200634	N83-29032*	c 74	NASA-CASE-KSC-11104-1	N83-31895*	c 31	NASA-CASE-MFS-25134-1
		US-PATENT-CLASS-415-115			US-PATENT-APPL-SN-153245			US-PATENT-APPL-SN-195226
		US-PATENT-CLASS-416-1			US-PATENT-CLASS-350-96.16			US-PATENT-CLASS-24-214
		US-PATENT-CLASS-416-97R			US-PATENT-CLASS-455-612			US-PATENT-CLASS-244-159
		US-PATENT-4,384,823			US-PATENT-4,381,881			US-PATENT-4,381,583
N83-27184*	c 35	NASA-CASE-NPO-15292-1	N83-29303*	c 18	NASA-CASE-MFS-25403-1	N83-31896*	c 31	NASA-CASE-NPO-14596-3
		US-PATENT-APPL-SN-207135			US-PATENT-APPL-SN-248745			US-PATENT-APPL-SN-303671
		US-PATENT-CLASS-250-282			US-PATENT-CLASS-244-115			US-PATENT-CLASS-264-5
		US-PATENT-CLASS-250-288			US-PATENT-CLASS-244-161			US-PATENT-CLASS-264-9
		US-PATENT-CLASS-250-423			US-PATENT-CLASS-269-152			US-PATENT-CLASS-264-9
		US-PATENT-4,383,171			US-PATENT-CLASS-269-242			US-PATENT-CLASS-425-6
N83-27344*	c 44	NASA-CASE-LEW-13246-1			US-PATENT-CLASS-269-244			US-PATENT-CLASS-65-142
		US-PATENT-APPL-SN-266255			US-PATENT-CLASS-294-86R			US-PATENT-CLASS-65-214
		US-PATENT-CLASS-429-105			US-PATENT-4,391,423			US-PATENT-CLASS-65-22
		US-PATENT-CLASS-429-107	N83-29324*	c 25	NASA-CASE-GSC-12770-1			US-PATENT-4,344,787
		US-PATENT-CLASS-429-109			US-PATENT-APPL-SN-301075	N83-31897*	c 31	NASA-CASE-NPO-15251-1
		US-PATENT-CLASS-429-34			US-PATENT-CLASS-423-648R			US-PATENT-APPL-SN-229239
		US-PATENT-CLASS-429-40			US-PATENT-CLASS-423-649			US-PATENT-CLASS-337-14
		US-PATENT-4,382,116			US-PATENT-4,393,039			US-PATENT-CLASS-62-48
N83-27569*	c 51	NASA-CASE-GSC-12158-1	N83-29388*	c 27	NASA-CASE-LEW-13132-1			US-PATENT-CLASS-62-514R
		US-PATENT-APPL-SN-888434			US-PATENT-APPL-SN-272152	N83-31918*	c 32	US-PATENT-4,366,680
		US-PATENT-CLASS-422-52			US-PATENT-CLASS-204-35N			NASA-CASE-NPO-14525-2
		US-PATENT-CLASS-435-289			US-PATENT-CLASS-204-37R			US-PATENT-APPL-SN-165910
		US-PATENT-CLASS-435-291			US-PATENT-CLASS-204-56R			US-PATENT-CLASS-343-5CM
		US-PATENT-CLASS-435-3			US-PATENT-4,392,920			US-PATENT-CLASS-343-9PS
		US-PATENT-CLASS-435-34	N83-29392* #	c 27	NASA-CASE-LEW-12876-2			US-PATENT-CLASS-367-88
		US-PATENT-CLASS-435-38			US-PATENT-APPL-SN-393583			US-PATENT-4,355,311
		US-PATENT-CLASS-435-39	N83-29625*	c 34	NASA-CASE-LEW-12508-3	N83-31952*	c 33	NASA-CASE-LEW-13429-1
		US-PATENT-4,385,113			US-PATENT-APPL-SN-235868			US-PATENT-APPL-SN-220212
N83-27577*	c 52	NASA-CASE-MSC-18761-1			US-PATENT-CLASS-62-3			US-PATENT-CLASS-315-3
		US-PATENT-APPL-SN-254688			US-PATENT-4,392,356			US-PATENT-CLASS-315-4
		US-PATENT-CLASS-128-DIG.13	N83-29650*	c 35	NASA-CASE-MFS-25242-1			US-PATENT-CLASS-315-5
		US-PATENT-CLASS-604-114			US-PATENT-APPL-SN-246773			US-PATENT-CLASS-315-5.35
		US-PATENT-CLASS-604-151			US-PATENT-CLASS-374-17			US-PATENT-CLASS-315-5.38
		US-PATENT-CLASS-73-204			US-PATENT-CLASS-73-863.11			US-PATENT-4,395,656
		US-PATENT-4,384,578			US-PATENT-4,389,904	N83-31953*	c 33	NASA-CASE-MFS-25215-1
N83-27578*	c 52	NASA-CASE-MSC-18759-1	N83-29651*	c 35	NASA-CASE-LAR-12531-1			US-PATENT-APPL-SN-291131
		US-PATENT-APPL-SN-233270			US-PATENT-APPL-SN-282191			US-PATENT-CLASS-318-800
		US-PATENT-CLASS-128-660			US-PATENT-CASE-368-10			US-PATENT-CLASS-318-803
		US-PATENT-CLASS-128-663			US-PATENT-CASE-368-118			US-PATENT-CLASS-318-809
		US-PATENT-CLASS-73-597			US-PATENT-CASE-368-119			US-PATENT-4,394,610
		US-PATENT-4,383,533			US-PATENT-CASE-368-120	N83-31954*	c 33	NASA-CASE-NPO-14940-1
N83-27975*	c 05	NASA-CASE-FRC-11072-1			US-PATENT-CASE-368-6			US-PATENT-APPL-SN-135038
		US-PATENT-APPL-SN-230613			US-PATENT-CASE-368-9			US-PATENT-CLASS-324-466
		US-PATENT-CASE-179-146-R			US-PATENT-4,392,749			US-PATENT-CLASS-73-861.05
		US-PATENT-CASE-179-179	N83-29652*	c 35	NASA-CASE-MSC-18936-1			US-PATENT-4,338,568
		US-PATENT-CASE-367-906			US-PATENT-APPL-SN-325082	N83-31993*	c 34	NASA-CASE-NPO-15400-1
		US-PATENT-4,388,502			US-PATENT-CLASS-55-194			US-PATENT-APPL-SN-246774
N83-28064*	c 18	NASA-CASE-GSC-12551-1			US-PATENT-CLASS-55-202			US-PATENT-CLASS-250-573
		US-PATENT-APPL-SN-182881			US-PATENT-4,392,874			US-PATENT-CLASS-73-64.4
		US-PATENT-CLASS-244-169	N83-29680*	c 36	NASA-CASE-MFS-25315-1			US-PATENT-4,391,129
		US-PATENT-CLASS-244-170			US-PATENT-APPL-SN-224232	N83-32026*	c 35	NASA-CASE-LAR-12728-1
		US-PATENT-4,386,750			US-PATENT-CASE-356-129			US-PATENT-APPL-SN-408575
N83-28240*	c 27	NASA-CASE-LAR-12775-1			US-PATENT-4,391,518			US-PATENT-CLASS-248-636
		US-PATENT-APPL-SN-308201	N83-29681* #	c 36	NASA-CASE-GSC-12609-2			US-PATENT-CLASS-248-638
		US-PATENT-CLASS-524-104			US-PATENT-APPL-SN-481020			US-PATENT-CLASS-62-295
		US-PATENT-CLASS-524-173	N83-29783* #	c 43	NASA-CASE-LAR-13053-1			US-PATENT-CLASS-62-514 R
		US-PATENT-CLASS-524-233			US-PATENT-APPL-SN-508372			US-PATENT-4,394,819
		US-PATENT-CLASS-524-726	N83-29991* #	c 52	NASA-CASE-ARC-11264-2	N83-32067*	c 37	NASA-CASE-GSC-12517-1
		US-PATENT-CLASS-525-181			US-PATENT-APPL-SN-465370			US-PATENT-APPL-SN-214361
		US-PATENT-CLASS-525-183	N83-31603*	c 07	NASA-CASE-LEW-14586-1			US-PATENT-CLASS-104-282
		US-PATENT-CLASS-525-184			US-PATENT-APPL-SN-163122			US-PATENT-CLASS-104-290
		US-PATENT-CLASS-525-474			US-PATENT-CLASS-415-1			US-PATENT-CLASS-308-10
		US-PATENT-4,389,504			US-PATENT-CLASS-415-175			US-PATENT-CLASS-310-12
N83-28319*	c 33	NASA-CASE-MFS-25302-1			US-PATENT-CLASS-415-178			US-PATENT-4,387,935
		US-PATENT-APPL-SN-243683			US-PATENT-CLASS-415-47	N83-32081*	c 39	NASA-CASE-LAR-12602-1
		US-PATENT-CLASS-322-29			US-PATENT-4,338,061			US-PATENT-APPL-SN-210506
		US-PATENT-CLASS-322-35	N83-31743*	c 25	NASA-CASE-NPO-15304-1			US-PATENT-CLASS-374-51
		US-PATENT-CLASS-322-47			US-PATENT-APPL-SN-315587			US-PATENT-CLASS-73-818
		US-PATENT-CLASS-322-95			US-PATENT-CLASS-201-17			US-PATENT-CLASS-73-822
		US-PATENT-4,388,585			US-PATENT-CLASS-44-1SR			US-PATENT-CLASS-73-856
N83-28356*	c 34	NASA-CASE-GSC-12553-1			US-PATENT-4,391,609			US-PATENT-CLASS-73-860
		US-PATENT-APPL-SN-106192	N83-31795*	c 26	NASA-CASE-LEW-13343			US-PATENT-4,393,716

N83-32175*	c 44	NASA-CASE-LEW-12443-1 US-PATENT-APPL-SN-235797 US-PATENT-CLASS-310-306 US-PATENT-4,373,142	US-PATENT-CLASS-264-137 US-PATENT-CLASS-264-258 US-PATENT-CLASS-264-331.46 US-PATENT-CLASS-528-222 US-PATENT-CLASS-528-226 US-PATENT-4,398,021	US-PATENT-CLASS-264-12 US-PATENT-CLASS-264-24 US-PATENT-CLASS-264-5 US-PATENT-CLASS-425-10 US-PATENT-CLASS-425-6 US-PATENT-CLASS-425-7 US-PATENT-CLASS-65-142 US-PATENT-CLASS-65-21.3 US-PATENT-CLASS-65-21.4 US-PATENT-CLASS-65-22 US-PATENT-4,400,191
N83-32176*	c 44	NASA-CASE-LEW-13171-2 US-PATENT-APPL-SN-333537 US-PATENT-CLASS-29-623.5 US-PATENT-CLASS-429-144 US-PATENT-CLASS-429-251 US-PATENT-CLASS-429-254 US-PATENT-4,371,596	N83-34043* c 27 NASA-CASE-NPO-15202-1 US-PATENT-APPL-SN-233271 US-PATENT-CLASS-384-124 US-PATENT-CLASS-523-440 US-PATENT-CLASS-523-443 US-PATENT-4,395,503	
N83-32177*	c 44	NASA-CASE-LEW-13401-2 US-PATENT-APPL-SN-359388 US-PATENT-CLASS-136-249 US-PATENT-CLASS-357-30 US-PATENT-4,376,872	N83-34073* c 31 NASA-CASE-ARC-11246-1 US-PATENT-APPL-SN-136660 US-PATENT-CLASS-156-264 US-PATENT-CLASS-156-344 US-PATENT-CLASS-156-59 US-PATENT-CLASS-273-240 US-PATENT-CLASS-434-403 US-PATENT-CLASS-434-88 US-PATENT-4,385,949	N83-35177* c 31 NASA-CASE-LEW-13450-1 US-PATENT-APPL-SN-328760 US-PATENT-CLASS-427-243 US-PATENT-CLASS-427-247 US-PATENT-CLASS-427-34 US-PATENT-CLASS-427-423 US-PATENT-4,402,992
N83-32232*	c 47	NASA-CASE-NPO-14936-1 US-PATENT-APPL-SN-163837 US-PATENT-CLASS-250-203R US-PATENT-CLASS-356-222 US-PATENT-4,355,896	N83-34189* c 33 NASA-CASE-GSC-12566-1 US-PATENT-APPL-SN-276748 US-PATENT-CLASS-315-208 US-PATENT-CLASS-315-224 US-PATENT-CLASS-315-225 US-PATENT-CLASS-315-237 US-PATENT-CLASS-315-241R US-PATENT-CLASS-372-25 US-PATENT-4,398,129	N83-35227* c 33 NASA-CASE-MFS-25209-1 US-PATENT-APPL-SN-291132 US-PATENT-CLASS-318-685 US-PATENT-CLASS-318-798 US-PATENT-CLASS-318-806 US-PATENT-4,401,934
N83-32342*	c 60	NASA-CASE-NPO-15342-1 US-PATENT-APPL-SN-258623 US-PATENT-CLASS-364-200 US-PATENT-CLASS-364-900 US-PATENT-4,394,726		N83-35307* c 34 NASA-CASE-GSC-12812-1 US-PATENT-APPL-SN-434674 US-PATENT-CLASS-165-104.26 US-PATENT-CLASS-165-32 US-PATENT-4,402,358
N83-32515*	c 71	NASA-CASE-NPO-15453-1 US-PATENT-APPL-SN-314929 US-PATENT-CLASS-60-721 US-PATENT-CLASS-73-505 US-PATENT-4,393,708	N83-34190* c 33 NASA-CASE-MFS-25607-1 US-PATENT-APPL-SN-325886 US-PATENT-CLASS-361-90 US-PATENT-CLASS-318-729 US-PATENT-CLASS-318-798 US-PATENT-CLASS-318-806 US-PATENT-CLASS-361-100 US-PATENT-CLASS-363-54 US-PATENT-4,400,657	N83-35338* c 35 NASA-CASE-LEW-13934-1 US-PATENT-APPL-SN-212949 US-PATENT-CLASS-228-103 US-PATENT-CLASS-228-193 US-PATENT-CLASS-228-263.18 US-PATENT-CLASS-415-118 US-PATENT-4,402,447
N83-32516*	c 71	NASA-CASE-NPO-15522-1 US-PATENT-APPL-SN-303672 US-PATENT-CLASS-60-721 US-PATENT-CLASS-73-505 US-PATENT-4,393,706		N83-35350* c 36 NASA-CASE-NPO-15201-1 US-PATENT-APPL-SN-246778 US-PATENT-CLASS-330-4 US-PATENT-CLASS-332-7.5 US-PATENT-CLASS-333-24.2 US-PATENT-4,399,415
N83-32577*	c 74	NASA-CASE-GSC-12614-1 US-PATENT-APPL-SN-195227 US-PATENT-CLASS-356-353 US-PATENT-CLASS-356-363 US-PATENT-4,395,123	N83-34191* c 33 NASA-CASE-GSC-12646-1 US-PATENT-APPL-SN-284290 US-PATENT-CLASS-330-289 US-PATENT-CLASS-330-310 US-PATENT-4,401,953	N83-35781* c 71 NASA-CASE-NPO-15334-1 US-PATENT-APPL-SN-341406 US-PATENT-CLASS-210-748 US-PATENT-CLASS-252-361 US-PATENT-CLASS-366-114 US-PATENT-CLASS-55-15 US-PATENT-CLASS-55-277 US-PATENT-CLASS-55-38 US-PATENT-CLASS-55-52 US-PATENT-CLASS-65-134 US-PATENT-4,398,925
N83-33882*	c 06	NASA-CASE-FRC-11043-1 US-PATENT-APPL-SN-242790 US-PATENT-CLASS-33-322 US-PATENT-CLASS-74-5.34 US-PATENT-4,387,513	N83-34221* c 34 NASA-CASE-LAR-12393-1 US-PATENT-APPL-SN-145208 US-PATENT-CLASS-165-27 US-PATENT-CLASS-165-12 US-PATENT-CLASS-165-61 US-PATENT-CLASS-165-80E US-PATENT-CLASS-374-46 US-PATENT-CLASS-62-514R US-PATENT-CLASS-62-62 US-PATENT-4,346,754	N83-35888* c 76 NASA-CASE-NPO-15530-1 US-PATENT-APPL-SN-364092 US-PATENT-CLASS-156-DIG.6 US-PATENT-CLASS-156-DIG.73 US-PATENT-CLASS-156-608 US-PATENT-4,401,505
N83-33884*	c 07	NASA-CASE-ARC-10812-1 US-PATENT-APPL-SN-657903 US-PATENT-CLASS-181-213 US-PATENT-CLASS-239-265.17 US-PATENT-CLASS-60-262 US-PATENT-CLASS-60-269 US-PATENT-CLASS-60-271 US-PATENT-4,372,110	N83-34304* c 36 NASA-CASE-ARC-11312-1 US-PATENT-APPL-SN-234224 US-PATENT-CLASS-356-1 US-PATENT-CLASS-356-4 US-PATENT-CLASS-358-104 US-PATENT-CLASS-358-109 US-PATENT-CLASS-434-38 US-PATENT-CLASS-434-4 US-PATENT-4,391,514	N83-35992* c 01 NASA-CASE-LAR-12624-1 US-PATENT-APPL-SN-259209 US-PATENT-CLASS-102-378 US-PATENT-CLASS-244-137P US-PATENT-CLASS-89-1B US-PATENT-4,407,468
N83-33950*	c 24	NASA-CASE-NPO-14987-1 US-PATENT-APPL-SN-164-584 US-PATENT-CLASS-427-215 US-PATENT-CLASS-427-241 US-PATENT-CLASS-428-367 US-PATENT-CLASS-428-375 US-PATENT-CLASS-428-392 US-PATENT-CLASS-428-902 US-PATENT-CLASS-428-903 US-PATENT-4,359,503	N83-34323* c 37 NASA-CASE-GSC-12726-1 US-PATENT-APPL-SN-364093 US-PATENT-CLASS-308-10 US-PATENT-4,381,375	N83-36029* c 07 NASA-CASE-LEW-13142-1 US-PATENT-APPL-SN-132364 US-PATENT-CLASS-60-39.07 US-PATENT-4,404,793
N83-33977*	c 25	NASA-CASE-ARC-11326-1 US-PATENT-APPL-SN-178192 US-PATENT-CLASS-252-5 US-PATENT-CLASS-423-419P US-PATENT-CLASS-423-600 US-PATENT-CLASS-424-156 US-PATENT-4,356,157	N83-34448* c 44 NASA-CASE-ARC-11164-1 US-PATENT-APPL-SN-308007 US-PATENT-CLASS-350-166 US-PATENT-CLASS-428-312.6 US-PATENT-CLASS-428-325 US-PATENT-CLASS-428-427 US-PATENT-CLASS-428-428 US-PATENT-4,381,333	N83-36118* c 25 NASA-CASE-ARC-11252-1 US-PATENT-APPL-SN-317977 US-PATENT-CLASS-169-47 US-PATENT-CLASS-252-2 US-PATENT-CLASS-252-5 US-PATENT-4,406,797
N83-34039*	c 27	NASA-CASE-GSC-12686-1 US-PATENT-APPL-SN-293412 US-PATENT-CLASS-427-322 US-PATENT-CLASS-427-340 US-PATENT-CLASS-427-352 US-PATENT-CLASS-427-400 US-PATENT-CLASS-427-407.1 US-PATENT-4,362,769	N83-34449* c 44 NASA-CASE-LAR-12719-1 US-PATENT-APPL-SN-367134 US-PATENT-CLASS-126-901 US-PATENT-CLASS-204-33 US-PATENT-CLASS-204-35N US-PATENT-4,397,716	N83-36220* c 27 NASA-CASE-MFS-25436-1 US-PATENT-APPL-SN-280151 US-PATENT-CLASS-156-DIG.73 US-PATENT-CLASS-156-DIG.89 US-PATENT-CLASS-156-600 US-PATENT-CLASS-156-610 US-PATENT-CLASS-165-2 US-PATENT-CLASS-165-58 US-PATENT-CLASS-219-343 US-PATENT-CLASS-219-354 US-PATENT-CLASS-219-390 US-PATENT-CLASS-219-411 US-PATENT-CLASS-350-316 US-PATENT-4,408,658
N83-34040*	c 27	NASA-CASE-LAR-12838-1 US-PATENT-APPL-SN-320621 US-PATENT-CLASS-526-259 US-PATENT-CLASS-526-285 US-PATENT-CLASS-528-12 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-220 US-PATENT-CLASS-528-222 US-PATENT-CLASS-528-228 US-PATENT-CLASS-528-229 US-PATENT-CLASS-528-38 US-PATENT-4,375,536	N83-34796* c 76 NASA-CASE-LEW-12582-1 US-PATENT-APPL-SN-397281 US-PATENT-CLASS-310-332 US-PATENT-CLASS-310-800 US-PATENT-CLASS-428-294 US-PATENT-CLASS-428-421 US-PATENT-CLASS-428-422 US-PATENT-4,400,642	N83-36355* c 33 NASA-CASE-GSC-12630-1 US-PATENT-APPL-SN-308009 US-PATENT-CLASS-343-100AP US-PATENT-CLASS-343-840 US-PATENT-4,407,001
N83-34041*	c 27	NASA-CASE-LAR-12858-1 US-PATENT-APPL-SN-407240 US-PATENT-CLASS-164-331.12	N83-35176* c 31 NASA-CASE-NPO-15070-1 US-PATENT-APPL-SN-403847	N83-36356* c 33 NASA-CASE-KSC-11170-1 US-PATENT-APPL-SN-284288

		US-PATENT-CLASS-330-110			US-PATENT-CLASS-244-45R			US-PATENT-CLASS-428-202
		US-PATENT-CLASS-330-282			US-PATENT-CLASS-244-53R			US-PATENT-CLASS-428-347
		US-PATENT-4,406,989			US-PATENT-CLASS-244-55			US-PATENT-CLASS-428-40
N83-36357*	c 33	NASA-CASE-LAR-12654-1			US-PATENT-CLASS-244-91			US-PATENT-CLASS-428-78
		US-PATENT-APPL-SN-234225			US-PATENT-4,415,133			US-PATENT-4,420,518
		US-PATENT-CLASS-368-184	N84-12193* #	c 09	NASA-CASE-ARC-11426-1	N84-14324*	c 27	NASA-CASE-MS-18382-2
		US-PATENT-CLASS-368-200			US-PATENT-APPL-SN-526741			US-PATENT-APPL-SN-241155
		US-PATENT-CLASS-368-201	N84-12262*	c 25	NASA-CASE-NPO-15458-1			US-PATENT-CLASS-524-371
		US-PATENT-4,407,589			US-PATENT-APPL-SN-376306	N84-14421*	c 33	US-PATENT-4,395,511
N83-36482*	c 37	NASA-CASE-MS-18791-1			US-PATENT-CLASS-204-DIG.3			NASA-CASE-GSC-12650-1
		US-PATENT-APPL-SN-248746			US-PATENT-CLASS-204-129			US-PATENT-APPL-SN-301077
		US-PATENT-CLASS-29-446			US-PATENT-CLASS-204-242			US-PATENT-CLASS-330-107
		US-PATENT-CLASS-73-862.54			US-PATENT-CLASS-204-278			US-PATENT-CLASS-330-109
		US-PATENT-CLASS-81-55			US-PATENT-CLASS-204-290R			US-PATENT-4,417,215
		US-PATENT-CLASS-81-57.38			US-PATENT-CLASS-427-443.2	N84-14422*	c 33	NASA-CASE-LEW-13286-1
		US-PATENT-4,407,165			US-PATENT-CLASS-429-111			US-PATENT-APPL-SN-272406
N83-36483*	c 37	NASA-CASE-MS-18807-1	N84-12406*	c 34	US-PATENT-4,414,080			US-PATENT-CLASS-252-182.1
		US-PATENT-APPL-SN-266688			US-PATENT-APPL-SN-308203			US-PATENT-CLASS-429-206
		US-PATENT-CLASS-123-197R			US-PATENT-CLASS-239-426			US-PATENT-CLASS-429-229
		US-PATENT-CLASS-123-78E			US-PATENT-4,413,784	N84-14423*	c 33	US-PATENT-4,418,130
		US-PATENT-4,406,256	N84-12443*	c 35	NASA-CASE-FRC-11068-1			NASA-CASE-MFS-25211-2
N83-36846*	c 71	NASA-CASE-NPO-15435-1			US-PATENT-APPL-SN-322314			US-PATENT-APPL-SN-432057
		US-PATENT-APPL-SN-272837			US-PATENT-CLASS-156-215			US-PATENT-CLASS-339-258RR
		US-PATENT-CLASS-308-10			US-PATENT-CLASS-156-230			US-PATENT-CLASS-339-262RR
		US-PATENT-CLASS-73-505			US-PATENT-CLASS-156-235			US-PATENT-CLASS-339-64M
N83-36898*	c 74	NASA-CASE-GSC-12683-1			US-PATENT-CLASS-156-294	N84-14424*	c 33	US-PATENT-4,421,371
		US-PATENT-APPL-SN-333535			US-PATENT-CLASS-156-391			NASA-CASE-MFS-25477-1
		US-PATENT-CLASS-350-173			US-PATENT-CLASS-156-423			US-PATENT-APPL-SN-243683
		US-PATENT-CLASS-350-445			US-PATENT-CLASS-156-540			US-PATENT-APPL-SN-297524
		US-PATENT-4,407,563			US-PATENT-CLASS-156-71			US-PATENT-APPL-SN-350472
N84-11136*	c 02	NASA-CASE-LAR-12843-1			US-PATENT-CLASS-338-2			US-PATENT-CLASS-318-729
		US-PATENT-APPL-SN-392096			US-PATENT-4,407,686			US-PATENT-CLASS-318-798
		US-PATENT-CLASS-244-35A	N84-12444*	c 35	NASA-CASE-LAR-12706-1			US-PATENT-CLASS-318-806
		US-PATENT-CLASS-244-35R			US-PATENT-APPL-SN-210498	N84-14461*	c 34	US-PATENT-4,417,190
		US-PATENT-CLASS-416-223R			US-PATENT-CLASS-324-250			NASA-CASE-GSC-12771-1
		US-PATENT-CLASS-416-242			US-PATENT-CLASS-328-230			US-PATENT-APPL-SN-434672
		US-PATENT-4,412,664			US-PATENT-CLASS-372-74			US-PATENT-CLASS-165-32
N84-11213*	c 24	NASA-CASE-ARC-11418-1			US-PATENT-4,414,509			US-PATENT-CLASS-165-41
		US-PATENT-APPL-SN-452464	N84-12445*	c 35	NASA-CASE-LAR-12882-1			US-PATENT-CLASS-165-96
		US-PATENT-CLASS-523-435			US-PATENT-APPL-SN-267179	N84-14491*	c 35	US-PATENT-4,420,035
		US-PATENT-CLASS-523-456			US-PATENT-CLASS-364-415			NASA-CASE-LAR-12686-1
		US-PATENT-CLASS-528-110			US-PATENT-CLASS-73-646			US-PATENT-APPL-SN-249304
		US-PATENT-CLASS-528-361			US-PATENT-CLASS-73-658			US-PATENT-CLASS-364-557
		US-PATENT-4,410,682			US-PATENT-4,413,522			US-PATENT-CLASS-364-571
N84-11214*	c 24	NASA-CASE-LAR-12807-1	N84-12491*	c 37	NASA-CASE-GSC-12619-1			US-PATENT-CLASS-73-714
		US-PATENT-APPL-SN-280155			US-PATENT-APPL-SN-225499	N84-14509*	c 36	US-PATENT-4,399,515
		US-PATENT-CLASS-228-157			US-PATENT-CLASS-101-407BP			NASA-CASE-GSC-12565-1
		US-PATENT-CLASS-228-181			US-PATENT-CLASS-269-3			US-PATENT-APPL-SN-270763
		US-PATENT-CLASS-228-212			US-PATENT-4,393,777			US-PATENT-CLASS-350-299
		US-PATENT-CLASS-244-119	N84-12492*	c 37	NASA-CASE-GSC-12622-1			US-PATENT-CLASS-356-345
		US-PATENT-CLASS-244-123			US-PATENT-APPL-SN-243684			US-PATENT-CLASS-372-100
		US-PATENT-CLASS-428-593			US-PATENT-CLASS-308-2A			US-PATENT-CLASS-372-108
		US-PATENT-CLASS-52-806			US-PATENT-4,405,184			US-PATENT-CLASS-372-93
		US-PATENT-CLASS-52-808	N84-12493*	c 37	NASA-CASE-LAR-12923-1			US-PATENT-CLASS-372-94
		US-PATENT-4,411,380			US-PATENT-APPL-SN-383063			US-PATENT-CLASS-372-98
N84-11497*	c 37	NASA-CASE-MFS-25678-1			US-PATENT-CLASS-416-117	N84-14583*	c 44	US-PATENT-4,420,836
		US-PATENT-APPL-SN-378533			US-PATENT-CLASS-416-132B			NASA-CASE-NPO-15100-1
		US-PATENT-CLASS-277-116.6			US-PATENT-4,415,311			US-PATENT-APPL-SN-259211
		US-PATENT-CLASS-277-124	N84-12654*	c 45	NASA-CASE-NSTL-10			US-PATENT-CLASS-138-42
		US-PATENT-CLASS-277-164			US-PATENT-APPL-SN-335036			US-PATENT-CLASS-251-127
		US-PATENT-CLASS-277-177			US-PATENT-CLASS-210-151			US-PATENT-4,418,722
		US-PATENT-CLASS-277-190			US-PATENT-CLASS-210-602	N84-14873*	c 71	NASA-CASE-LAR-11903-2
		US-PATENT-4,410,189			US-PATENT-CLASS-210-605			US-PATENT-APPL-SN-238791
N84-11744*	c 52	NASA-CASE-MFS-25740-1			US-PATENT-CLASS-210-617			US-PATENT-APPL-SN-753971
		US-PATENT-APPL-SN-371352			US-PATENT-CLASS-47-58			US-PATENT-CLASS-239-265.17
		US-PATENT-CLASS-128-DIG.25			US-PATENT-4,415,450			US-PATENT-4,398,667
		US-PATENT-CLASS-128-1R	N84-12968* #	c 76	NASA-CASE-NPO-15811-1	N84-16231*	c 15	NASA-CASE-LAR-12751-1
		US-PATENT-CLASS-128-346			US-PATENT-APPL-SN-547175			US-PATENT-APPL-SN-338386
		US-PATENT-4,408,597	N84-14132*	c 04	NASA-CASE-LAR-12638-1			US-PATENT-CLASS-73-167
N84-11758*	c 54	NASA-CASE-MS-18223-2			US-PATENT-APPL-SN-367187			US-PATENT-CLASS-73-432R
		US-PATENT-APPL-SN-219681			US-PATENT-CLASS-33-DIG.3			US-PATENT-CLASS-73-9
		US-PATENT-APPL-SN-368187			US-PATENT-CLASS-33-348			US-PATENT-4,425,785
		US-PATENT-CLASS-604-368			US-PATENT-CLASS-33-356	N84-16255*	c 23	NASA-CASE-NPO-15767-1
		US-PATENT-CLASS-604-378			US-PATENT-CLASS-33-361			US-PATENT-APPL-SN-315584
		US-PATENT-CLASS-604-396			US-PATENT-4,418,480			US-PATENT-CLASS-208-10
		US-PATENT-4,338,371	N84-14322*	c 27	NASA-CASE-ARC-11400-1			US-PATENT-CLASS-208-8LE
		US-PATENT-4,411,660			US-PATENT-APPL-SN-441899			US-PATENT-4,388,171
N84-11920*	c 74	NASA-CASE-GSC-12640-1			US-PATENT-CLASS-428-246	N84-16262*	c 24	NASA-CASE-MS-16934-3
		US-PATENT-APPL-SN-267178			US-PATENT-CLASS-428-260			US-PATENT-APPL-SN-185868
		US-PATENT-CLASS-250-363R			US-PATENT-CLASS-428-367			US-PATENT-APPL-SN-361711
		US-PATENT-CLASS-250-363S			US-PATENT-CLASS-428-408			US-PATENT-APPL-SN-969757
		US-PATENT-CLASS-250-368			US-PATENT-CLASS-428-473.5			US-PATENT-CLASS-164-119
		US-PATENT-CLASS-378-2			US-PATENT-CLASS-428-902			US-PATENT-CLASS-264-118
		US-PATENT-4,404,469			US-PATENT-CLASS-428-920			US-PATENT-CLASS-264-59
N84-11921*	c 74	NASA-CASE-NPO-15375-1			US-PATENT-CLASS-524-494			US-PATENT-CLASS-264-60
		US-PATENT-APPL-SN-210405			US-PATENT-CLASS-524-496			US-PATENT-4,421,700
		US-PATENT-CLASS-250-227			US-PATENT-CLASS-524-500	N84-16276*	c 25	NASA-CASE-LEW-13426-1
		US-PATENT-CLASS-3-1.1			US-PATENT-CLASS-524-530			US-PATENT-APPL-SN-393588
		US-PATENT-CLASS-350-96.10			US-PATENT-CLASS-525-282			US-PATENT-CLASS-110-186
		US-PATENT-CLASS-350-96.15			US-PATENT-CLASS-525-287			US-PATENT-CLASS-110-262
		US-PATENT-CLASS-73-432T			US-PATENT-4,421,820			US-PATENT-CLASS-110-263
		US-PATENT-4,405,197	N84-14323*	c 27	NASA-CASE-LAR-12881-1			US-PATENT-CLASS-110-265
N84-12154*	c 05	NASA-CASE-LAR-12615-1			US-PATENT-APPL-SN-361215			US-PATENT-CLASS-431-1
		US-PATENT-APPL-SN-263829			US-PATENT-CLASS-206-447			US-PATENT-4,425,854
		US-PATENT-CLASS-244-13			US-PATENT-CLASS-206-582	N84-16452*	c 33	NASA-CASE-LEW-13570-1

			US-PATENT-APPL-SN-251009	US-PATENT-CLASS-55-138	US-PATENT-CLASS-428-370
			US-PATENT-CLASS-315-3.5	US-PATENT-CLASS-55-139	US-PATENT-CLASS-428-408
			US-PATENT-CLASS-315-3.6	US-PATENT-CLASS-55-145	US-PATENT-CLASS-428-902
			US-PATENT-CLASS-315-39.3	US-PATENT-CLASS-55-2	US-PATENT-CLASS-428-920
			US-PATENT-CLASS-333-162	US-PATENT-CLASS-55-270	US-PATENT-CLASS-525-417
			US-PATENT-4,422,012	US-PATENT-CLASS-55-283	US-PATENT-CLASS-526-262
N84-16453*	c 33		NASA-CASE-MFS-25430-1	US-PATENT-CLASS-55-291	US-PATENT-CLASS-528-228
			US-PATENT-APPL-SN-383083	US-PATENT-CLASS-55-466	US-PATENT-CLASS-528-322
			US-PATENT-CLASS-363-25	US-PATENT-CLASS-55-6	US-PATENT-CLASS-548-415
			US-PATENT-CLASS-363-65	US-PATENT-CLASS-55-96	US-PATENT-4,395,557
			US-PATENT-CLASS-363-67	US-PATENT-CLASS-60-275	US-PATENT-4,433,115
			US-PATENT-CLASS-363-71	US-PATENT-CLASS-60-303	N84-22746*
			US-PATENT-4,426,678	US-PATENT-CLASS-60-311	c 27
N84-16454*	c 33		NASA-CASE-GSC-12645-1	US-PATENT-4,376,637	NASA-CASE-LAR-12723-2
			US-PATENT-APPL-SN-284314	N84-22546*	US-PATENT-APPL-SN-199768
			US-PATENT-CLASS-324-79R	c 04	US-PATENT-APPL-SN-447371
			US-PATENT-CLASS-324-83A	NASA-CASE-GSC-12508-1	US-PATENT-CLASS-525-426
			US-PATENT-CLASS-324-83R	US-PATENT-APPL-SN-266253	US-PATENT-CLASS-528-183
			US-PATENT-CLASS-328-133	US-PATENT-CLASS-343-356	US-PATENT-CLASS-528-220
			US-PATENT-CLASS-330-289	US-PATENT-CLASS-343-357	US-PATENT-CLASS-528-345
			US-PATENT-4,425,543	US-PATENT-4,445,118	US-PATENT-CLASS-528-348
N84-16455*	c 33		NASA-CASE-MFS-25616-1	N84-22551*	US-PATENT-4,395,540
			US-PATENT-APPL-SN-325932	c 05	US-PATENT-4,431,792
			US-PATENT-CLASS-318-799	NASA-CASE-LAR-12541-1	N84-22747*
			US-PATENT-CLASS-323-243	US-PATENT-APPL-SN-315588	c 27
			US-PATENT-CLASS-323-246	US-PATENT-CLASS-244-212	NASA-CASE-LAR-12931-1
			US-PATENT-4,426,614	US-PATENT-CLASS-244-215	US-PATENT-APPL-SN-433598
N84-16456*	c 33		NASA-CASE-NPO-15161-1	US-PATENT-CLASS-244-216	US-PATENT-CLASS-524-171
			US-PATENT-APPL-SN-325083	US-PATENT-CLASS-244-219	US-PATENT-CLASS-525-534
			US-PATENT-CLASS-427-216	US-PATENT-4,444,368	US-PATENT-CLASS-525-535
			US-PATENT-CLASS-427-217	N84-22559*	US-PATENT-CLASS-525-536
			US-PATENT-CLASS-427-226	c 07	US-PATENT-CLASS-528-25
			US-PATENT-CLASS-427-376.6	NASA-CASE-LEW-13622-1	US-PATENT-CLASS-528-26
			US-PATENT-CLASS-427-376.7	US-PATENT-APPL-SN-350473	US-PATENT-CLASS-528-26
			US-PATENT-CLASS-427-436	US-PATENT-CLASS-364-558	US-PATENT-4,431,761
			US-PATENT-CLASS-427-437	US-PATENT-CLASS-73-115	N84-22748*
			US-PATENT-CLASS-427-58	US-PATENT-4,428,226	c 27
			US-PATENT-CLASS-427-75	N84-22560*	NASA-CASE-NPO-15640-1
			US-PATENT-CLASS-427-88	c 07	US-PATENT-APPL-SN-465367
			US-PATENT-CLASS-427-96	NASA-CASE-LEW-13654-1	US-PATENT-CLASS-156-304.3
			US-PATENT-4,388,346	US-PATENT-APPL-SN-245571	US-PATENT-CLASS-156-304.6
N84-16523*	c 35		NASA-CASE-LAR-12007-3	US-PATENT-CLASS-416-224	US-PATENT-CLASS-156-499
			US-PATENT-APPL-SN-352831	US-PATENT-CLASS-416-233	US-PATENT-CLASS-156-81
			US-PATENT-CLASS-33-293	US-PATENT-CLASS-416-92	US-PATENT-CLASS-156-89
			US-PATENT-4,428,122	US-PATENT-CLASS-416-97R	US-PATENT-4,420,352
N84-16542*	c 36		NASA-CASE-LAR-12870-1	US-PATENT-4,411,597	N84-22749*
			US-PATENT-APPL-SN-317658	N84-22601*	c 27
			US-PATENT-CLASS-372-55	c 16	NASA-CASE-LAR-12980-1
			US-PATENT-CLASS-372-79	NASA-CASE-MSC-20254-1	US-PATENT-APPL-SN-469866
			US-PATENT-4,424,592	US-PATENT-APPL-SN-418137	US-PATENT-CLASS-528-125
N84-16560*	c 37		NASA-CASE-MFS-25510-1	US-PATENT-CLASS-244-158A	US-PATENT-CLASS-528-128
			US-PATENT-APPL-SN-293414	US-PATENT-CLASS-52-404	US-PATENT-CLASS-528-172
			US-PATENT-CLASS-248-228	US-PATENT-CLASS-52-506	US-PATENT-CLASS-528-185
			US-PATENT-4,422,609	US-PATENT-4,439,968	US-PATENT-4,444,979
N84-16561*	c 37		NASA-CASE-LAR-12785-1	N84-22605*	c 18
			US-PATENT-APPL-SN-297488	NASA-CASE-MSC-18969-1	NASA-CASE-ARC-11370-1
			US-PATENT-CLASS-239-568	US-PATENT-APPL-SN-368189	US-PATENT-APPL-SN-491125
			US-PATENT-CLASS-241-95	US-PATENT-CLASS-244-161	US-PATENT-CLASS-525-389
			US-PATENT-CLASS-406-155	US-PATENT-CLASS-403-322	US-PATENT-CLASS-528-394
			US-PATENT-4,428,703	US-PATENT-4,431,333	US-PATENT-CLASS-528-399
N84-16803*	c 54		NASA-CASE-MSC-20202-1	N84-22609* #	US-PATENT-CLASS-528-6
			US-PATENT-APPL-SN-414106	c 18	US-PATENT-CLASS-528-7
			US-PATENT-CLASS-128-1A	NASA-CASE-MSC-20543-1	US-PATENT-CLASS-568-4
			US-PATENT-CLASS-128-15R	US-PATENT-APPL-SN-580574	US-PATENT-CLASS-568-5
			US-PATENT-CLASS-128-38	N84-22612* #	US-PATENT-4,444,972
			US-PATENT-4,421,109	c 18	NASA-CASE-ARC-11505-1
N84-16940*	c 71		NASA-CASE-NPO-15592-1	US-PATENT-APPL-SN-588036	N84-22695*
			US-PATENT-APPL-SN-314702	c 24	NASA-CASE-LEW-13837-1
			US-PATENT-CLASS-118-300	US-PATENT-APPL-SN-495381	US-PATENT-APPL-SN-266687
			US-PATENT-CLASS-118-50	US-PATENT-CLASS-204-192C	US-PATENT-CLASS-343-17.5
			US-PATENT-CLASS-118-50.1	US-PATENT-CLASS-204-192R	US-PATENT-CLASS-343-9R
			US-PATENT-CLASS-118-57	US-PATENT-CLASS-204-192SP	US-PATENT-4,439,766
			US-PATENT-CLASS-118-62	US-PATENT-CLASS-423-DIG.10	N84-22884*
			US-PATENT-CLASS-427-346	US-PATENT-CLASS-423-414	c 33
			US-PATENT-CLASS-427-421	US-PATENT-CLASS-423-445	NASA-CASE-MFS-256704-1
			US-PATENT-CLASS-427-426	US-PATENT-CLASS-423-446	US-PATENT-APPL-SN-409679
			US-PATENT-CLASS-427-57	US-PATENT-CLASS-423-449	US-PATENT-CLASS-204-192EC
			US-PATENT-CLASS-427-6	US-PATENT-4,437,962	US-PATENT-4,437,961
			US-PATENT-CLASS-65-213	N84-22709*	c 25
			US-PATENT-4,425,376	NASA-CASE-NPO-15210-1	NASA-CASE-MFS-25535-2
N84-16959* #	c 72		NASA-CASE-NPO-15547-1	US-PATENT-APPL-SN-322312	US-PATENT-APPL-SN-476244
			US-PATENT-APPL-SN-276076	US-PATENT-CLASS-208-10	US-PATENT-CLASS-318-438
N84-17555*	c 35		NASA-CASE-NPO-15426-1	US-PATENT-CLASS-208-8LE	US-PATENT-CLASS-318-729
			US-PATENT-APPL-SN-196877	US-PATENT-4,443,321	US-PATENT-CLASS-318-798
			US-PATENT-CLASS-210-748	N84-22734*	US-PATENT-CLASS-318-805
			US-PATENT-CLASS-422-121	c 26	US-PATENT-CLASS-318-810
			US-PATENT-CLASS-422-169	NASA-CASE-LEW-13349-1	US-PATENT-4,433,276
			US-PATENT-CLASS-422-178	US-PATENT-APPL-SN-350476	N84-22886*
			US-PATENT-CLASS-422-186	US-PATENT-CLASS-29-623.5	c 33
			US-PATENT-CLASS-55-DIG.25	US-PATENT-CLASS-427-115	NASA-CASE-MFS-25323-1
			US-PATENT-CLASS-55-DIG.30	US-PATENT-CLASS-427-125	US-PATENT-APPL-SN-297524
			US-PATENT-CLASS-55-105	US-PATENT-CLASS-427-126.6	US-PATENT-CLASS-318-729
			US-PATENT-CLASS-55-12	US-PATENT-CLASS-427-296	US-PATENT-CLASS-318-812
			US-PATENT-CLASS-55-126	US-PATENT-CLASS-427-306	US-PATENT-4,439,718
			US-PATENT-CLASS-55-131	US-PATENT-CLASS-429-223	N84-22887*
				US-PATENT-CLASS-429-234	c 33
				US-PATENT-4,439,465	NASA-CASE-GSC-12567-1
N84-22744*	c 27		NASA-CASE-ARC-11402-1	US-PATENT-4,439,465	US-PATENT-APPL-SN-373839
			US-PATENT-APPL-SN-366025	N84-22903*	US-PATENT-CLASS-330-109
			US-PATENT-CLASS-260-465.5R	c 34	US-PATENT-CLASS-330-277
			US-PATENT-CLASS-260-465.6	NASA-CASE-NPO-15465-1	US-PATENT-CLASS-330-294
			US-PATENT-CLASS-528-362	US-PATENT-APPL-SN-284289	US-PATENT-4,437,069
			US-PATENT-CLASS-528-401	US-PATENT-CLASS-126-417	N84-22928*
			US-PATENT-CLASS-528-422	US-PATENT-CLASS-165-DIG.6	c 35
			US-PATENT-CLASS-528-423	US-PATENT-CLASS-165-135	NASA-CASE-MFS-25687-1
			US-PATENT-CLASS-544-215	US-PATENT-CLASS-62-DIG.1	US-PATENT-APPL-SN-350474
			US-PATENT-CLASS-564-243	US-PATENT-CLASS-62-264	US-PATENT-CLASS-324-262
			US-PATENT-4,434,106	US-PATENT-CLASS-62-467R	US-PATENT-CLASS-73-620
N84-22745*	c 27		NASA-CASE-ARC-11368-3	US-PATENT-4,423,605	
			US-PATENT-APPL-SN-288267		
			US-PATENT-APPL-SN-512795		

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		US-PATENT-CLASS-30-249		US-PATENT-APPL-SN-342857		US-PATENT-APPL-SN-368188
		US-PATENT-CLASS-30-272R		US-PATENT-CLASS-250-305		US-PATENT-CLASS-323-901
		US-PATENT-4,458,418		US-PATENT-CLASS-324-457		US-PATENT-CLASS-363-22
N84-28203*	c 44	NASA-CASE-NPO-15388-1		US-PATENT-CLASS-324-71.3		US-PATENT-CLASS-363-49
		US-PATENT-APPL-SN-284286		US-PATENT-CLASS-324-72.5		US-PATENT-4,464,710
		US-PATENT-CLASS-126-419		US-PATENT-4,455,532	N84-33765*	c 35
		US-PATENT-CLASS-126-438		NASA-CASE-NPO-15805-1		NASA-CASE-GSC-12682-1
		US-PATENT-CLASS-126-451	N84-28590*	US-PATENT-APPL-SN-296137		US-PATENT-APPL-SN-350477
		US-PATENT-4,433,672		US-PATENT-CLASS-250-332		US-PATENT-CLASS-250-367
N84-28204*	c 44	NASA-CASE-NPO-15662-1		US-PATENT-CLASS-250-338		US-PATENT-CLASS-250-385
		US-PATENT-APPL-SN-392103		US-PATENT-4,443,701		US-PATENT-CLASS-250-483.1
		US-PATENT-CLASS-126-418	N84-28732*	c 02	NASA-CASE-LAR-12396-1	US-PATENT-CLASS-357-29
		US-PATENT-CLASS-126-438		US-PATENT-APPL-SN-017889		US-PATENT-CLASS-357-30
		US-PATENT-CLASS-126-440		US-PATENT-CLASS-244-35R		US-PATENT-CLASS-357-32
		US-PATENT-4,449,514		US-PATENT-CLASS-416-223R		US-PATENT-4,472,728
N84-28205*	c 44	NASA-CASE-LEW-13653-1		US-PATENT-CLASS-416-242	N84-33766*	c 35
		US-PATENT-APPL-SN-352821		US-PATENT-4,459,083		NASA-CASE-NPO-13556-1
		US-PATENT-CLASS-204-290	N84-29017* #	c 28	NASA-CASE-KSC-11304-1	US-PATENT-APPL-SN-561369
		US-PATENT-CLASS-29-623.5		US-PATENT-APPL-SN-603373		US-PATENT-CLASS-250-339
		US-PATENT-CLASS-29-825	N84-32398* #	c 09	NAS 1.71:MFS-25962-1	US-PATENT-CLASS-356-188
		US-PATENT-CLASS-427-113		NASA-CASE-MFS-25962-1		US-PATENT-CLASS-356-189
		US-PATENT-CLASS-427-115		US-PATENT-APPL-SN-633180		US-PATENT-CLASS-356-73
		US-PATENT-CLASS-427-125	N84-32447* #	c 25	NAS 1.71:LAR-13257-1	US-PATENT-CLASS-356-74
		US-PATENT-CLASS-427-226		NASA-CASE-LAR-13257-1		US-PATENT-4,043,668
		US-PATENT-CLASS-427-372.2		US-PATENT-APPL-SN-633178	N84-33767*	c 35
		US-PATENT-CLASS-427-379		NAS 1.71:ARC-11423-1		NASA-CASE-NPO-15644-1
		US-PATENT-CLASS-427-380	N84-33394*	c 03	NASA-CASE-ARC-11423-1	US-PATENT-APPL-SN-358088
		US-PATENT-CLASS-427-443		US-PATENT-APPL-SN-452466		US-PATENT-CLASS-250-251
		US-PATENT-CLASS-429-44		US-PATENT-CLASS-297-DIG.5		US-PATENT-CLASS-250-252.1
		US-PATENT-4,454,649		US-PATENT-CLASS-428-246		US-PATENT-CLASS-250-372
N84-28292*	c 47	NASA-CASE-LAR-12971-1		US-PATENT-CLASS-428-280		US-PATENT-4,469,942
		US-PATENT-APPL-SN-444149		US-PATENT-CLASS-428-287	N84-33768*	c 35
		US-PATENT-CLASS-250-356.1		US-PATENT-CLASS-428-304.4		NAS 1.71:MFS-25717-1
		US-PATENT-CLASS-73-189		US-PATENT-CLASS-428-319.1		NASA-CASE-MFS-25717-1
		US-PATENT-CLASS-73-861.71		US-PATENT-CLASS-428-423.5		US-PATENT-APPL-SN-441897
		US-PATENT-4,449,400		US-PATENT-CLASS-428-71		US-PATENT-CLASS-175-45
N84-28361*	c 51	NASA-CASE-ARC-11359-1		US-PATENT-CLASS-428-76		US-PATENT-CLASS-299-1
		US-PATENT-APPL-SN-392092		US-PATENT-CLASS-428-921	N84-33769*	c 35
		US-PATENT-CLASS-264-41		US-PATENT-CLASS-5-459		NAS 1.71:NPO-15341-1
		US-PATENT-CLASS-521-141		US-PATENT-4,463,465		NASA-CASE-NPO-15341-1
		US-PATENT-CLASS-521-142	N84-33400* #	c 05	NAS 1.71:LAR-13233-1	US-PATENT-APPL-SN-315583
		US-PATENT-CLASS-521-149		NASA-CASE-LAR-13233-1		US-PATENT-CLASS-180-168
		US-PATENT-4,456,708		US-PATENT-APPL-SN-649329		US-PATENT-CLASS-318-587
N84-28388*	c 52	NASA-CASE-LAR-12650-1	N84-33410*	c 07	NAS 1.71:LEW-13524-1	US-PATENT-CLASS-340-905
		US-PATENT-APPL-SN-264381		NASA-CASE-LEW-13524-1		US-PATENT-CLASS-340-988
		US-PATENT-CLASS-128-325		US-PATENT-APPL-SN-238257	N84-33807*	c 37
		US-PATENT-CLASS-128-346		US-PATENT-CLASS-415-115		NASA-CASE-MFS-25862-2
		US-PATENT-CLASS-24-560		US-PATENT-CLASS-60-39.29		US-PATENT-APPL-SN-460509
		US-PATENT-4,416,266		US-PATENT-CLASS-60-39.83		US-PATENT-CLASS-73-12
N84-28389*	c 52	NASA-CASE-LAR-12650-2		US-PATENT-4,416,111		US-PATENT-CLASS-73-588
		US-PATENT-APPL-SN-264381	N84-33450*	c 18	NAS 1.71:LAR-12884	US-PATENT-4,470,293
		US-PATENT-APPL-SN-465363		NASA-CASE-LAR-12884-1	N84-33808*	c 37
		US-PATENT-CLASS-156-191		US-PATENT-APPL-SN-510136		NAS 1.71:LEW-12995-1
		US-PATENT-CLASS-156-285		US-PATENT-CLASS-428-182		NASA-CASE-LEW-12995-1
		US-PATENT-CLASS-156-289		US-PATENT-CLASS-428-184		US-PATENT-APPL-SN-157150
		US-PATENT-CLASS-156-382		US-PATENT-CLASS-428-595		US-PATENT-CLASS-60-303
		US-PATENT-CLASS-29-423		US-PATENT-CLASS-52-814		US-PATENT-CLASS-60-606
		US-PATENT-CLASS-29-451		US-PATENT-4,472,473	N84-34443*	c 06
		US-PATENT-4,447,943	N84-33555*	c 26	NAS 1.71:LEW-13639-1	NASA-CASE-NPO-15351-2
N84-28484*	c 54	NASA-CASE-MSC-20261-1		NASA-CASE-LEW-13639-1		US-PATENT-APPL-SN-224231
		US-PATENT-APPL-SN-393586		US-PATENT-APPL-SN-403378		US-PATENT-APPL-SN-412039
		US-PATENT-CLASS-2-161R		US-PATENT-CLASS-416-241R		US-PATENT-CLASS-73-178-R
		US-PATENT-CLASS-2-164		US-PATENT-CLASS-428-564		US-PATENT-4,346,595
		US-PATENT-CLASS-2-167		US-PATENT-CLASS-428-639		US-PATENT-4,474,062
		US-PATENT-4,454,611		US-PATENT-CLASS-428-678	N84-34448*	c 09
N84-28491*	c 60	NASA-CASE-GSC-12447-2		US-PATENT-4,446,199		NASA-CASE-LAR-12950-1
		US-PATENT-APPL-SN-128230	N84-33589*	c 27	NAS 1.71:NPO-15753-1	US-PATENT-APPL-SN-481106
		US-PATENT-APPL-SN-501060		NASA-CASE-NPO-15753-1		US-PATENT-CLASS-73-147
		US-PATENT-CLASS-364-900		US-PATENT-APPL-SN-342871	N84-34571*	c 24
		US-PATENT-4,435,781		US-PATENT-CLASS-219-203		NASA-CASE-LAR-13230-1
N84-28492*	c 60	NASA-CASE-MSC-20258-1		US-PATENT-CLASS-219-219		US-PATENT-APPL-SN-548584
		US-PATENT-APPL-SN-235472		US-PATENT-CLASS-219-522		US-PATENT-CLASS-523-454
		US-PATENT-CLASS-340-825.21		US-PATENT-CLASS-219-541		US-PATENT-CLASS-523-458
		US-PATENT-CLASS-340-825.5		US-PATENT-CLASS-219-543		US-PATENT-CLASS-525-484
		US-PATENT-CLASS-364-900		US-PATENT-CLASS-338-309		US-PATENT-CLASS-528-407
		US-PATENT-4,446,459		US-PATENT-CLASS-428-432		US-PATENT-CLASS-528-92
N84-28565*	c 70	NASA-CASE-LEW-12919-2		US-PATENT-4,459,470	N84-34651*	c 32
		US-PATENT-APPL-SN-264378	N84-33660*	c 33	NAS 1.71:MFS-25302-2	US-PATENT-4,473,674
		US-PATENT-APPL-SN-364072		NASA-CASE-MFS-25302-2		NAS 1.71:NPO-15519-1
		US-PATENT-CLASS-313-106		US-PATENT-APPL-SN-243683		NASA-CASE-NPO-15519-1
		US-PATENT-CLASS-313-107		US-PATENT-APPL-SN-481086		US-PATENT-APPL-SN-314928
		US-PATENT-CLASS-313-351		US-PATENT-CLASS-307-87		US-PATENT-CLASS-343-5-CM
		US-PATENT-CLASS-315-5.38		US-PATENT-CLASS-322-25		US-PATENT-CLASS-343-5-DP
		US-PATENT-4,349,424		US-PATENT-CLASS-322-47		US-PATENT-CLASS-343-5-FT
		US-PATENT-4,417,175		US-PATENT-CLASS-322-95		US-PATENT-4,471,357
N84-28568*	c 71	NASA-CASE-MFS-25828-1		US-PATENT-4,388,585	N84-34705*	c 35
		US-PATENT-APPL-SN-493866		US-PATENT-4,473,792		NAS 1.71:NPO-15558-1
		US-PATENT-CLASS-137-838	N84-33661*	c 33	NAS 1.71:MFS-25852-1	NASA-CASE-NPO-15558-1
		US-PATENT-CLASS-366-106		NASA-CASE-MFS-25852-1		US-PATENT-APPL-SN-373770
		US-PATENT-CLASS-425-6		US-PATENT-APPL-SN-450319		US-PATENT-CLASS-250-343
		US-PATENT-CLASS-65-142		US-PATENT-CLASS-318-729		US-PATENT-CLASS-250-351
		US-PATENT-CLASS-65-160		US-PATENT-CLASS-318-802		US-PATENT-CLASS-356-434
		US-PATENT-CLASS-65-21.3		US-PATENT-4,469,998	N84-34792*	c 44
		US-PATENT-CLASS-65-21.4	N84-33663*	c 33	NAS 1.71:LEW-13495-1	NAS 1.71:NPO-15808-1
		US-PATENT-4,447,251		NASA-CASE-LEW-13495-1		NASA-CASE-NPO-15808-1
N84-28575*	c 72	NASA-CASE-MFS-25641-1				US-PATENT-APPL-SN-383068
						US-PATENT-CLASS-126-415
						US-PATENT-CLASS-4-498

N84-34913*	c 52	US-PATENT-4,470,403	N85-20226* #	c 32	US-PATENT-4,490,229	N85-21347*	c 27	US-PATENT-4,474,975
		NASA-CASE-GSC-12652-1			NAS 1.71:GSC-12892-1			NAS 1.71:ARC-11368-2
		US-PATENT-APPL-SN-377891			NASA-CASE-GSC-12892-1			NASA-CASE-ARC-11368-2
		US-PATENT-CLASS-128-24-A			US-PATENT-APPL-SN-655606			US-PATENT-APPL-SN-175452
N84-35112* #	c 76	US-PATENT-CLASS-128-328	N85-20294*	c 35	NAS 1.71:GSC-12789-1	N85-21348*	c 27	US-PATENT-APPL-SN-288267
		US-PATENT-4,474,180			NASA-CASE-GSC-12789-1			US-PATENT-APPL-SN-502820
		NASA-CASE-NPO-15786-1			US-PATENT-APPL-SN-409680			US-PATENT-CLASS-526-262
		US-PATENT-APPL-SN-366103			US-PATENT-CLASS-177-147			US-PATENT-CLASS-526-274
N84-35113*	c 76	US-PATENT-CLASS-204-1T	N85-20295*	c 35	US-PATENT-CLASS-177-260	N85-21349*	c 27	US-PATENT-CLASS-528-167
		US-PATENT-CLASS-204-37.6			US-PATENT-CLASS-73-862.54			US-PATENT-CLASS-528-168
		US-PATENT-CLASS-204-56R			US-PATENT-4,479,560			US-PATENT-CLASS-528-170
		US-PATENT-CLASS-324-158D			NAS 1.71:LAR-13065-1			US-PATENT-CLASS-528-321
N85-19985*	c 08	US-PATENT-CLASS-324-158T	N85-20300* #	c 35	NASA-CASE-LAR-13065-1	N85-21350*	c 27	US-PATENT-CLASS-528-322
		US-PATENT-4,462,871			US-PATENT-APPL-SN-484745			US-PATENT-4,276,344
		NASA-CASE-NPO-15629-1			US-PATENT-CLASS-73-187			US-PATENT-4,395,557
		US-PATENT-APPL-SN-371351			US-PATENT-4,485,671			US-PATENT-4,496,701
N85-19990*	c 09	US-PATENT-CLASS-156-DIG.64	N85-20337*	c 37	NAS 1.71:MFS-28008-1	N85-21351*	c 27	NASA-CASE-ARC-11413-1
		US-PATENT-CLASS-156-DIG.88			NASA-CASE-MFS-28008-1			US-PATENT-APPL-SN-440656
		US-PATENT-CLASS-156-DIG.98			US-PATENT-APPL-SN-684194			US-PATENT-CLASS-528-125
		US-PATENT-CLASS-156-608			NAS 1.71:GSC-12582-2			US-PATENT-CLASS-528-126
N85-19995*	c 08	US-PATENT-CLASS-156-617-SP	N85-20530*	c 44	NASA-CASE-GSC-12582-2	N85-21352*	c 27	US-PATENT-CLASS-528-128
		US-PATENT-CLASS-156-617-V			US-PATENT-APPL-SN-220213			US-PATENT-CLASS-528-166
		US-PATENT-CLASS-422-246			US-PATENT-APPL-SN-415960			US-PATENT-CLASS-528-185
		US-PATENT-CLASS-422-249			US-PATENT-CLASS-104-281			US-PATENT-CLASS-528-186
N85-20123*	c 27	US-PATENT-4,469,552	N85-21147*	c 05	US-PATENT-CLASS-104-284	N85-21353*	c 27	US-PATENT-CLASS-528-187
		NAS 1.71:LAR-12787-2			US-PATENT-CLASS-308-10			US-PATENT-CLASS-528-226
		NASA-CASE-LAR-12787-2			US-PATENT-4,473,259			US-PATENT-CLASS-528-229
		US-PATENT-APPL-SN-301078			NAS 1.71:MSC-20112-1			US-PATENT-CLASS-528-352
N85-20124*	c 27	US-PATENT-APPL-SN-5226628	N85-21178*	c 09	NASA-CASE-MSC-20112-1	N85-21354*	c 27	US-PATENT-CLASS-528-353
		US-PATENT-CLASS-244-214			US-PATENT-APPL-SN-392104			US-PATENT-4,499,260
		US-PATENT-CLASS-244-90R			US-PATENT-CLASS-251-265			NAS 1.71:LAR-12775-2
		US-PATENT-4,485,992			US-PATENT-CLASS-251-267			NASA-CASE-LAR-12775-2
N85-20125*	c 27	NAS 1.71:KSC-11218-1	N85-21256*	c 20	US-PATENT-CLASS-251-284	N85-21355*	c 27	US-PATENT-APPL-SN-308201
		NASA-CASE-KSC-11218-1			US-PATENT-CLASS-251-297			US-PATENT-APPL-SN-461788
		US-PATENT-APPL-SN-387649			US-PATENT-CLASS-74-424.8B			US-PATENT-CLASS-525-181
		US-PATENT-CLASS-434-242			US-PATENT-CLASS-74-424.8VA			US-PATENT-CLASS-525-182
N85-20126*	c 27	US-PATENT-CLASS-434-243	N85-21266*	c 24	US-PATENT-4,483,512	N85-21356*	c 27	US-PATENT-CLASS-525-183
		US-PATENT-CLASS-434-35			NAS 1.71:LEW-13414-1			US-PATENT-CLASS-525-184
		US-PATENT-CLASS-434-49			NASA-CASE-LEW-13414-1			US-PATENT-CLASS-525-474
		US-PATENT-4,490,117			US-PATENT-APPL-SN-465364			US-PATENT-4,389,504
N85-20127*	c 27	NAS 1.71:LAR-12723-1	N85-21279*	c 25	US-PATENT-CLASS-136-256	N85-21357*	c 27	US-PATENT-4,497,935
		NASA-CASE-LAR-12723-1			US-PATENT-CLASS-427-85			NAS 1.71:LEW-13770-3
		US-PATENT-APPL-SN-199768			US-PATENT-4,478,879			NASA-CASE-LEW-13770-3
		US-PATENT-CLASS-525-420			NAS 1.71:LAR-12979-1			US-PATENT-APPL-SN-516217
N85-20128*	c 27	US-PATENT-CLASS-528-183	N85-21280*	c 25	NASA-CASE-LAR-12979-1	N85-21358*	c 27	US-PATENT-APPL-SN-561431
		US-PATENT-CLASS-528-192			US-PATENT-APPL-SN-508371			US-PATENT-CLASS-526-217
		US-PATENT-CLASS-528-220			US-PATENT-CLASS-244-139			US-PATENT-CLASS-526-262
		US-PATENT-CLASS-528-336			US-PATENT-CLASS-244-147			US-PATENT-CLASS-528-229
N85-20129*	c 27	US-PATENT-CLASS-528-345	N85-21281*	c 25	US-PATENT-CLASS-244-75R	N85-21359*	c 27	US-PATENT-CLASS-528-315
		US-PATENT-4,395,540			US-PATENT-4,496,122			US-PATENT-CLASS-528-322
		NAS 1.71:LAR-12858-2			NAS 1.71:LAR-13014-1			US-PATENT-CLASS-528-336
		NASA-CASE-LAR-12858-2			NASA-CASE-LAR-13014-1			US-PATENT-CLASS-528-336
N85-20130*	c 27	US-PATENT-APPL-SN-407240	N85-21282*	c 25	US-PATENT-APPL-SN-527918	N85-21360*	c 27	US-PATENT-CLASS-528-342
		US-PATENT-APPL-SN-492282			US-PATENT-CLASS-73-147			US-PATENT-4,497,948
		US-PATENT-CLASS-264-DIG.65			US-PATENT-4,493,211			NAS 1.71:LEW-13770-4
		US-PATENT-CLASS-264-112			NAS 1.71:LEW-13881-1			NASA-CASE-LEW-13770-4
N85-20131*	c 27	US-PATENT-CLASS-264-120	N85-21283*	c 25	NASA-CASE-LEW-13881-1	N85-21361*	c 27	US-PATENT-APPL-SN-516217
		US-PATENT-CLASS-264-137			US-PATENT-APPL-SN-473498			US-PATENT-APPL-SN-561429
		US-PATENT-CLASS-264-152			US-PATENT-CLASS-60-202			US-PATENT-CLASS-526-262
		US-PATENT-CLASS-264-258			US-PATENT-4,466,242			US-PATENT-CLASS-528-229
N85-20132*	c 27	US-PATENT-CLASS-264-331.12	N85-21284*	c 24	NAS 1.71:LEW-13324-2	N85-21362*	c 27	US-PATENT-CLASS-528-322
		US-PATENT-CLASS-264-331.19			NASA-CASE-LEW-13324-2			US-PATENT-CLASS-528-342
		US-PATENT-CLASS-528-226			US-PATENT-APPL-SN-375784			US-PATENT-4,497,939
		US-PATENT-CLASS-528-239			US-PATENT-APPL-SN-523297			NAS 1.71:LEW-13770-5
N85-20133*	c 27	US-PATENT-CLASS-528-241	N85-21285*	c 25	US-PATENT-CLASS-428-633	N85-21363*	c 27	NASA-CASE-LEW-13770-5
		US-PATENT-CLASS-528-258			US-PATENT-CLASS-428-656			US-PATENT-APPL-SN-516217
		US-PATENT-CLASS-528-279			US-PATENT-CLASS-428-678			US-PATENT-APPL-SN-561435
		US-PATENT-4,398,021			US-PATENT-CLASS-428-679			US-PATENT-CLASS-526-262
N85-20134*	c 27	US-PATENT-4,489,027	N85-21286*	c 24	US-PATENT-CLASS-428-680	N85-21364*	c 27	US-PATENT-CLASS-528-229
		NAS 1.71:LAR-12894-1			US-PATENT-CLASS-428-681			US-PATENT-CLASS-528-322
		NASA-CASE-LAR-12894-1			US-PATENT-CLASS-428-682			US-PATENT-CLASS-528-322
		US-PATENT-APPL-SN-516087			US-PATENT-CLASS-428-683			US-PATENT-CLASS-528-342
N85-20135*	c 27	US-PATENT-CLASS-156-273.7	N85-21287*	c 24	US-PATENT-CLASS-428-684	N85-21365*	c 27	US-PATENT-4,497,940
		US-PATENT-CLASS-24-304			US-PATENT-4,485,151			NASA-CASE-GSC-12799-1
		US-PATENT-CLASS-24-447			NAS 1.71:LEW-13837-2			US-PATENT-APPL-SN-461724
		US-PATENT-CLASS-24-450			NASA-CASE-LEW-13837-2			US-PATENT-CLASS-31-35
N85-20136*	c 27	US-PATENT-CLASS-24-693	N85-21288*	c 25	US-PATENT-APPL-SN-495381	N85-21366*	c 27	US-PATENT-CLASS-310-22
		US-PATENT-4,488,335			US-PATENT-APPL-SN-591089			US-PATENT-CLASS-417-417
		NAS 1.71:MFS-25862-1			US-PATENT-CLASS-204-192C			US-PATENT-CLASS-417-488
		NASA-CASE-MFS-25862-1			US-PATENT-CLASS-204-192N			US-PATENT-CLASS-62-6
N85-20137*	c 27	US-PATENT-APPL-SN-465366	N85-21289*	c 25	US-PATENT-CLASS-204-192R	N85-21367*	c 27	US-PATENT-CLASS-92-98R
		US-PATENT-CLASS-73-579			US-PATENT-CLASS-204-192R			US-PATENT-4,500,265
		US-PATENT-CLASS-73-582			US-PATENT-CLASS-423-445			NAS 1.71:MSC-18578-1
		US-PATENT-CLASS-73-588			US-PATENT-CLASS-423-446			NASA-CASE-MSC-18578-1
N85-20138*	c 31	US-PATENT-4,479,386	N85-21290*	c 25	US-PATENT-CLASS-423-449	N85-21368*	c 27	US-PATENT-APPL-SN-367132
		NAS 1.71:LEW-14080-1			US-PATENT-CLASS-427-39			US-PATENT-CLASS-358-161
		NASA-CASE-LEW-14080-1			US-PATENT-4,437,962			US-PATENT-CLASS-358-174
		US-PATENT-APPL-SN-628866			US-PATENT-4,495,044			US-PATENT-CLASS-358-217
N85-20139*	c 31	US-PATENT-CLASS-204-192C	N85-21291*	c 25	NAS 1.71:GSC-12808-1	N85-21369*	c 27	US-PATENT-CLASS-358-219
		US-PATENT-CLASS-204-192R			NASA-CASE-GSC-12808-1			US-PATENT-4,495,520
		US-PATENT-CLASS-204-192SP			US-PATENT-APPL-SN-462497			NAS 1.71:NPO-15433-1
		US-PATENT-CLASS-423-DIG.10			US-PATENT-CLASS-376-159			NASA-CASE-NPO-15433-1
N85-20140*	c 31	US-PATENT-CLASS-423-414	N85-21292*	c 25	US-PATENT-4,483,817	N85-21370*	c 27	US-PATENT-APPL-SN-250585
		US-PATENT-CLASS-423-445			NAS 1.71:MFS-25721-1			US-PATENT-CLASS-364-200
		US-PATENT-CLASS-423-446			NASA-CASE-MFS-25721-1			US-PATENT-4,493,021
		US-PATENT-CLASS-423-449			US-PATENT-APPL-SN-492964			NAS 1.71:NPO-15560-1
N85-20141*	c 31	US-PATENT-CLASS-423-449	N85-21293*	c 25	US-PATENT-CLASS-556-410	N85-21371*	c 27	NASA-CASE-NPO-15560-1
		US-PATENT-CLASS-423-449			US-PATENT-APPL-SN-492964			US-PATENT-CLASS-364-200
		US-PATENT-CLASS-423-449			US-PATENT-CLASS-556-410			US-PATENT-4,493,021
		US-PATENT-CLASS-423-449			US-PATENT-APPL-SN-492964			NASA-CASE-NPO-15560-1

		US-PATENT-APPL-SN-275909			US-PATENT-CLASS-422-199	N85-29043*	c 27	NASA-CASE-NPO-16103-1
		US-PATENT-CLASS-250-426			US-PATENT-4,500,492			US-PATENT-APPL-SN-617871
		US-PATENT-CLASS-313-131A	N85-21723*	c 43	NAS 1.71:NPO-15651-1			US-PATENT-CLASS-525-26
		US-PATENT-CLASS-315-111.31			NASA-CASE-NPO-15651-1			US-PATENT-CLASS-525-47
		US-PATENT-CLASS-315-111.81			US-PATENT-APPL-SN-375620			US-PATENT-CLASS-526-328
		US-PATENT-4,475,063			US-PATENT-CLASS-343-352			US-PATENT-CLASS-526-329.2
N85-21492*	c 33	NAS 1.71:LEW-13833-1			US-PATENT-CLASS-374-122			US-PATENT-CLASS-528-288
		NASA-CASE-LEW-13833-1			US-PATENT-4,499,470			US-PATENT-CLASS-528-289
		US-PATENT-APPL-SN-486471	N85-21768*	c 44	NAS 1.71:LEW-13827-1			US-PATENT-CLASS-528-303
		US-PATENT-CLASS-136-255			NASA-CASE-LEW-13827-1			US-PATENT-CLASS-528-304
		US-PATENT-CLASS-357-12			US-PATENT-APPL-SN-486470			US-PATENT-4,523,008
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-136-225	N85-29044*	c 27	NASA-CASE-GSC-12883-1
		US-PATENT-4,482,779			US-PATENT-CLASS-136-246			US-PATENT-APPL-SN-604337
N85-21493*	c 33	NAS 1.71:NPO-15920-1			US-PATENT-CLASS-357-30			US-PATENT-CLASS-523-135
		NASA-CASE-NPO-15920-1			US-PATENT-4,482,778			US-PATENT-CLASS-524-388
		US-PATENT-APPL-SN-403848	N85-21769*	c 44	NAS 1.71:MFS-25637-1			US-PATENT-CLASS-524-567
		US-PATENT-CLASS-343-17.7			NASA-CASE-MFS-25637-1			US-PATENT-4,518,722
		US-PATENT-CLASS-343-376			US-PATENT-APPL-SN-375684	N85-29082*	c 31	NASA-CASE-NPO-16257-1
		US-PATENT-4,488,155			US-PATENT-CLASS-290-1R			US-PATENT-APPL-SN-588164
N85-21568*	c 34	NAS 1.71:LAR-12588-1			US-PATENT-CLASS-290-4R			US-PATENT-CLASS-62-3
		NASA-CASE-LAR-12588-1			US-PATENT-CLASS-307-64			US-PATENT-4,507,928
		US-PATENT-APPL-SN-234222			US-PATENT-CLASS-307-66	N85-29083*	c 31	NASA-CASE-LAR-13181-1
		US-PATENT-CLASS-165-104.26			US-PATENT-CLASS-318-46			US-PATENT-APPL-SN-507623
		US-PATENT-CLASS-73-179			US-PATENT-CLASS-318-729			US-PATENT-CLASS-156-272.4
		US-PATENT-CLASS-73-708			US-PATENT-4,489,243			US-PATENT-CLASS-156-273.9
		US-PATENT-4,485,670	N85-21846*	c 46	NAS 1.71:NPO-15430-1			US-PATENT-CLASS-156-380.2
N85-21595*	c 35	NAS 1.71:MSC-20275-1			NASA-CASE-NPO-15430-1			US-PATENT-CLASS-219-10.43
		NASA-CASE-MSC-20275-1			US-PATENT-APPL-SN-322317			US-PATENT-CLASS-219-10.49
		US-PATENT-APPL-SN-425205			US-PATENT-CLASS-343-352			US-PATENT-CLASS-219-10.53
		US-PATENT-CLASS-222-309			US-PATENT-CLASS-343-460			US-PATENT-CLASS-219-10.77
		US-PATENT-CLASS-222-340			US-PATENT-CLASS-343-5W			US-PATENT-4,521,659
		US-PATENT-CLASS-222-43			US-PATENT-4,463,357	N85-29117*	c 32	NASA-CASE-NPO-15432-1
		US-PATENT-CLASS-222-48	N85-21992*	c 60	NAS 1.71:NPO-15295-1			US-PATENT-APPL-SN-425204
		US-PATENT-4,488,663			NASA-CASE-NPO-15295-1			US-PATENT-CLASS-358-109
N85-21596*	c 35	NAS 1.71:NPO-15759-1			US-PATENT-APPL-SN-291645			US-PATENT-CLASS-358-133
		NASA-CASE-NPO-15759-1			US-PATENT-CLASS-364-200			US-PATENT-4,513,317
		US-PATENT-APPL-SN-367136			US-PATENT-4,481,570	N85-29118*	c 32	NASA-CASE-NPO-15743-1
		US-PATENT-CLASS-324-427	N85-22104*	c 71	NAS 1.71:NPO-15466-1			US-PATENT-APPL-SN-448881
		US-PATENT-CLASS-429-58			NASA-CASE-NPO-15466-1			US-PATENT-CLASS-343-876
		US-PATENT-4,499,424			US-PATENT-APPL-SN-361217			US-PATENT-CLASS-455-73
N85-21597*	c 35	NAS 1.71:NPO-16027-1			US-PATENT-CLASS-23-313R			US-PATENT-4,503,436
		NASA-CASE-NPO-16027-1			US-PATENT-CLASS-55-15	N85-29142*	c 33	NASA-CASE-NPO-15553-1
		US-PATENT-APPL-SN-500044			US-PATENT-CLASS-55-277			US-PATENT-APPL-SN-437912
		US-PATENT-CLASS-73-40.5A			US-PATENT-4,475,921			US-PATENT-CLASS-156-DIG.62
		US-PATENT-CLASS-73-753	N85-22105*	c 71	NAS 1.71:NPO-16022-1			US-PATENT-CLASS-364-400
		US-PATENT-4,498,333			NASA-CASE-NPO-16022-1			US-PATENT-CLASS-364-453
N85-21598*	c 35	NAS 1.71:WLP-10055-2			US-PATENT-APPL-SN-526750			US-PATENT-CLASS-74-5.6D
		NASA-CASE-WLP-10055-2			US-PATENT-CLASS-73-505			US-PATENT-4,521,854
		US-PATENT-APPL-SN-352827			US-PATENT-4,463,606	N85-29143*	c 33	NASA-CASE-NPO-15890-1-CU
		US-PATENT-APPL-SN-526770	N85-22139*	c 74	NAS 1.71:NPO-15155-1			US-PATENT-APPL-SN-556513
		US-PATENT-CLASS-29-610SG			NASA-CASE-NPO-15155-1			US-PATENT-CLASS-331-3
		US-PATENT-4,425,808			US-PATENT-APPL-SN-242797			US-PATENT-CLASS-331-31
		US-PATENT-4,498,231			US-PATENT-CLASS-250-221			US-PATENT-CLASS-331-36C
N85-21631*	c 36	NAS 1.71:NPO-15790-1			US-PATENT-CLASS-340-555			US-PATENT-CLASS-331-94.1
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		US-PATENT-APPL-SN-423016	N85-22877*	c 33	NAS 1.71:MFS-25861-1			US-PATENT-CLASS-333-231
		US-PATENT-CLASS-250-339			NASA-CASE-MFS-25861-1			US-PATENT-4,517,530
		US-PATENT-CLASS-250-343			US-PATENT-APPL-SN-504345	N85-29144*	c 33	NASA-CASE-LEW-13102-1
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		US-PATENT-APPL-SN-383086	N85-23396*	c 74	NAS 1.71:NPO-15801-1			US-PATENT-4,505,998
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		US-PATENT-CLASS-73-705			US-PATENT-CLASS-350-505			US-PATENT-CLASS-307-520
		US-PATENT-4,493,553			US-PATENT-CLASS-350-619			US-PATENT-CLASS-307-521
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		US-PATENT-APPL-SN-393582			US-PATENT-CLASS-356-331			US-PATENT-CLASS-330-302
		US-PATENT-CLASS-292-252			US-PATENT-4,497,540			US-PATENT-CLASS-330-306
		US-PATENT-CLASS-403-317			NAS 1.15:76884	N85-29146*	c 33	US-PATENT-4,521,702
		US-PATENT-CLASS-81-177G	N85-25436* #	c 24	NASA-TM-76884			NASA-CASE-GSC-12817-1
		US-PATENT-4,483,639	N85-28922* #	c 02	NAS 1.71:LAR-13286-1			US-PATENT-APPL-SN-506477
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		US-PATENT-APPL-SN-415879			US-PATENT-CLASS-204-192N			US-PATENT-CLASS-165-32
		US-PATENT-CLASS-134-37			US-PATENT-CLASS-427-38			US-PATENT-CLASS-310-306
		US-PATENT-CLASS-15-406			US-PATENT-CLASS-427-47			US-PATENT-4,506,183
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		US-PATENT-APPL-SN-598777	US-PATENT-CLASS-244-75-R	US-PATENT-CLASS-528-322		
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		US-PATENT-4,532,797	US-PATENT-4,538,446			
		NASA-CASE-ARC-11503-1	NASA-CASE-KSC-11155-1			
		US-PATENT-APPL-SN-582643	US-PATENT-APPL-SN-425201			
		US-PATENT-CLASS-250-374	US-PATENT-CLASS-343-6.8-R			
		US-PATENT-CLASS-250-379	US-PATENT-4,540,986			
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		US-PATENT-APPL-SN-580573	US-PATENT-CLASS-525-527			
		US-PATENT-CLASS-136-253	US-PATENT-CLASS-528-102			
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		US-PATENT-APPL-SN-580573	US-PATENT-CLASS-525-436			
		US-PATENT-CLASS-136-253	US-PATENT-CLASS-528-179			
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		US-PATENT-CLASS-435-160	US-PATENT-CLASS-428-680			
		US-PATENT-CLASS-435-842	US-PATENT-CLASS-428-681			
		US-PATENT-4,539,293	US-PATENT-CLASS-428-682			
N85-34722*	c 85	US-PATENT-4,485,151	US-PATENT-4,485,151	N86-19458*		
		US-PATENT-4,535,033	US-PATENT-4,535,033			
		NASA-CASE-NPO-15924-1	NASA-CASE-NPO-15924-1			
		US-PATENT-APPL-SN-526768	US-PATENT-APPL-SN-526768			
		US-PATENT-CLASS-201-17	US-PATENT-CLASS-201-17			
		US-PATENT-CLASS-44-1-SR	US-PATENT-CLASS-44-1-SR			
		US-PATENT-4,511,362	US-PATENT-4,511,362			
		NASA-CASE-LEW-13923-1	NASA-CASE-LEW-13923-1			
		US-PATENT-APPL-SN-571617	US-PATENT-APPL-SN-571617			
		US-PATENT-CLASS-427-191	US-PATENT-CLASS-427-191			
US-PATENT-CLASS-427-228	US-PATENT-CLASS-427-228					
US-PATENT-CLASS-427-294	US-PATENT-CLASS-427-294					
US-PATENT-CLASS-427-376.2	US-PATENT-CLASS-427-376.2					
US-PATENT-CLASS-427-380	US-PATENT-CLASS-427-380					
US-PATENT-CLASS-427-397.7	US-PATENT-CLASS-427-397.7					
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		US-PATENT-4,509,548	US-PATENT-CLASS-260-927-N			
		NASA-CASE-LEW-14077-1	US-PATENT-CLASS-428-410			
		US-PATENT-APPL-SN-580573	US-PATENT-CLASS-528-310			
		US-PATENT-CLASS-136-253	US-PATENT-CLASS-548-413			
		US-PATENT-4,528,417	US-PATENT-CLASS-564-113			
		NASA-CASE-NPO-15865-1	US-PATENT-4,550,177			
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US-PATENT-CLASS-343-13-R	US-PATENT-APPL-SN-493865					
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		US-PATENT-CLASS-136-253	US-PATENT-CLASS-525-527			
		US-PATENT-4,528,417	US-PATENT-CLASS-528-102			
		NASA-CASE-MSC-20127-2	US-PATENT-CLASS-528-103			
		US-PATENT-APPL-SN-646044	US-PATENT-4,550,129			
		US-PATENT-CLASS-137-116.3	NASA-CASE-MFS-25949-1			
		US-PATENT-CLASS-137-99	US-PATENT-APPL-SN-538063			
		US-PATENT-4,509,548	US-PATENT-CLASS-414-730			
		NASA-CASE-LAR-13243-1	US-PATENT-CLASS-901-31			
US-PATENT-APPL-SN-590923	US-PATENT-CLASS-901-50					
US-PATENT-CLASS-73-831	US-PATENT-4,545,723					
US-PATENT-CLASS-73-856	NASA-CASE-NPO-15960-1					
US-PATENT-4,535,636	US-PATENT-APPL-SN-527613					
N85-34401*	c 37	NASA-CASE-MFS-25907-1	US-PATENT-CLASS-337-140	N86-19603*		
		US-PATENT-APPL-SN-510137	US-PATENT-CLASS-60-527		c 37	
		US-PATENT-CLASS-244-118.1	US-PATENT-CLASS-60-528			
		US-PATENT-CLASS-244-158R	US-PATENT-4,553,393			
		US-PATENT-CLASS-248-550	NASA-CASE-NPO-16038-1			
		US-PATENT-CLASS-267-150	US-PATENT-APPL-SN-469684			
		US-PATENT-CLASS-267-8R	US-PATENT-CLASS-16-294			
		US-PATENT-CLASS-410-156	US-PATENT-CLASS-403-113			
		US-PATENT-4,536,114	US-PATENT-CLASS-403-120			
		NASA-CASE-MSC-20127-2	US-PATENT-4,558,967			
US-PATENT-APPL-SN-646044	NASA-CASE-LEW-13670-1					
US-PATENT-CLASS-137-116.3	US-PATENT-APPL-SN-603374					
US-PATENT-CLASS-137-99	US-PATENT-CLASS-384-103					
US-PATENT-4,509,548	US-PATENT-CLASS-384-106					
N85-34441*	c 44	NASA-CASE-LEW-14077-1	US-PATENT-4,552,466	N86-19606*		
		US-PATENT-APPL-SN-580573	NASA-CASE-NPO-15939-1		c 43	
		US-PATENT-CLASS-136-253	US-PATENT-APPL-SN-465365			
		US-PATENT-4,528,417	US-PATENT-CLASS-343-5-CD			
		NASA-CASE-NPO-15865-1	US-PATENT-CLASS-343-5-CM			
		US-PATENT-APPL-SN-425202	US-PATENT-CLASS-343-5-CD			
		US-PATENT-CLASS-343-13-R	US-PATENT-CLASS-343-5-VQ			
		US-PATENT-CLASS-356-5	US-PATENT-CLASS-367-88			
		US-PATENT-4,533,242	US-PATENT-4,551,724			
		NASA-CASE-NPO-15949-1	NASA-CASE-LEW-14028-1			
US-PATENT-APPL-SN-457990	US-PATENT-APPL-SN-642310					
US-PATENT-CLASS-414-288	US-PATENT-CLASS-429-109					
US-PATENT-CLASS-414-328	US-PATENT-CLASS-429-15					
US-PATENT-CLASS-414-373	US-PATENT-CLASS-429-19					
US-PATENT-CLASS-414-786	US-PATENT-CLASS-429-51					
US-PATENT-4,537,554	US-PATENT-4,543,302					
N85-35194*	c 07	NASA-CASE-LAR-13019-1	NAS 1.71:GSC-12944-1	N86-19885* #		
		US-PATENT-APPL-SN-576308	NASA-CASE-GSC-12944-1		c 52	
		US-PATENT-CLASS-244-199	US-PATENT-APPL-SN-793006			
		US-PATENT-CLASS-244-55	NAS 1.71:NPO-16675-1-CU			
		US-PATENT-4,533,101	NASA-CASE-NPO-16675-1-CU			
		NASA-CASE-LEW-13562-2	US-PATENT-APPL-SN-789266			
		US-PATENT-APPL-SN-500651	NASA-CASE-MFS-25942-1			
		US-PATENT-CLASS-239-402.5				
		US-PATENT-CLASS-60-39.23				
		US-PATENT-CLASS-60-748				
US-PATENT-4,534,166						
N85-35195*	c 07	NASA-CASE-LAR-13076-1		N86-20087* #		
		US-PATENT-APPL-SN-532342			c 71	
		US-PATENT-CLASS-244-113				
		US-PATENT-CLASS-244-139				
		US-PATENT-CLASS-244-75-R				
		US-PATENT-4,538,778				
		NASA-CASE-NPO-16203-1				
		US-PATENT-APPL-SN-493179				
		US-PATENT-CLASS-435-160				
		US-PATENT-CLASS-435-842				
US-PATENT-4,539,293						
N85-35200*	c 08	NASA-CASE-LEW-14057-1		N86-20124*		
		US-PATENT-APPL-SN-375784			c 74	
		US-PATENT-APPL-SN-523297				
		US-PATENT-APPL-SN-640712				
		US-PATENT-CLASS-428-633				
		US-PATENT-CLASS-428-656				
		US-PATENT-CLASS-428-678				
		US-PATENT-CLASS-428-679				
		US-PATENT-CLASS-428-680				
		US-PATENT-CLASS-428-681				

[illegible]

		US-PATENT-APPL-SN-672224			US-PATENT-CLASS-525-108			US-PATENT-CLASS-318-605
		US-PATENT-CLASS-227-27			US-PATENT-CLASS-525-115			US-PATENT-CLASS-318-636
		US-PATENT-CLASS-227-28			US-PATENT-CLASS-525-119			US-PATENT-CLASS-318-661
		US-PATENT-CLASS-4,580-791			US-PATENT-CLASS-525-122			US-PATENT-CLASS-340-347CC
N86-25791 *	c 37	NASA-CASE-LAR-13169-1	N86-27467 * #	c 31	NAS 1.71:NPO-16734-1-CU	N86-29174 *	c 35	US-PATENT-CLASS-340-347SY
		US-PATENT-APPL-SN-606431			NASA-CASE-NPO-16734-1-CU			US-PATENT-4,594,540
		US-PATENT-CLASS-343-DIG.2			US-PATENT-APPL-SN-855982			US-PATENT-APPL-SN-668432
		US-PATENT-CLASS-343-883			US-PATENT-CLASS-KSC-11285-1			US-PATENT-CLASS-261-78A
		US-PATENT-CLASS-52-110	N86-27513 *	c 32	US-PATENT-APPL-SN-655601			US-PATENT-CLASS-55-255
		US-PATENT-4,587,526			US-PATENT-CLASS-179-188C			US-PATENT-CLASS-55-259
N86-25874 *	c 44	NASA-CASE-LEW-13822-1			US-PATENT-CLASS-340-347DD			US-PATENT-CLASS-55-521
		US-PATENT-APPL-SN-625077			US-PATENT-CLASS-365-768			US-PATENT-CLASS-55-528
		US-PATENT-CLASS-42-101			US-PATENT-4,588,986			US-PATENT-4,595,399
		US-PATENT-CLASS-429-27	N86-27593 *	c 34	NASA-CASE-MS-20812-1	N86-29204 *	c 36	NAS 1.71:LAR-13256-1
		US-PATENT-CLASS-429-57			US-PATENT-APPL-SN-616002			NASA-CASE-LAR-13256-1
		US-PATENT-4,584,249			US-PATENT-CLASS-122-366			US-PATENT-APPL-SN-745973
N86-26190 *	c 74	NASA-CASE-GSC-12849-1			US-PATENT-CLASS-165-104.14			US-PATENT-CLASS-372-79
		US-PATENT-APPL-SN-556481			US-PATENT-CLASS-165-104.26			US-PATENT-4,594,720
		US-PATENT-CLASS-250-228			US-PATENT-4,583,587	N86-29507 * #	c 54	NASA-CASE-ARC-11534-1
		US-PATENT-CLASS-356-236			US-PATNET-CLASS-165-41			US-PATENT-APPL-SN-642602
		US-PATENT-CLASS-356-244	N86-27629 *	c 37	NASA-CASE-ARC-11525-1			US-PATENT-CLASS-138-120
		US-PATENT-CLASS-356-446			US-PATENT-APPL-SN-681041			US-PATENT-CLASS-2-2.1A
		US-PATENT-CLASS-56-73			US-PATENT-CLASS-318-48			US-PATENT-CLASS-285-168
		US-PATENT-4,583,860			US-PATENT-CLASS-318-632			US-PATENT-CLASS-285-184
N86-26296 * #	c 03	NAS 1.71:LAR-13470-1			US-PATENT-CLASS-318-663			US-PATENT-CLASS-285-227
		NASA-CASE-LAR-13470-1			US-PATENT-CLASS-318-8			US-PATENT-4,598,428
		US-PATENT-APPL-SN-855983			US-PATENT-4,591,772			US-PATENT-403-164
N86-26352 *	c 16	NASA-CASE-MFS-25966-1	N86-27630 *	c 37	NASA-CASE-LAR-13250-1	N86-29650 * #	c 74	NASA-CASE-GSC-12911-1
		US-PATENT-APPL-SN-643522			US-PATENT-APPL-SN-573162			US-PATENT-APPL-SN-606426
		US-PATENT-CLASS-244-161			US-PATENT-CLASS-403-312			US-PATENT-CLASS-350-315
		US-PATENT-4,582,277			US-PATENT-CLASS-403-388			US-PATENT-CLASS-350-318
N86-26368 *	c 20	NASA-CASE-MFS-25946-1			US-PATENT-CLASS-403-408.1			US-PATENT-CLASS-356-402
		US-PATENT-APPL-SN-561432			US-PATENT-4,579,475			US-PATENT-CLASS-356-419
		US-PATENT-CLASS-244-158.R	N86-27706 *	c 44	NASA-CASE-NPO-16236-1			US-PATENT-4,599,001
		US-PATENT-CLASS-244-169			US-PATENT-APPL-SN-582495	N86-31726 * #	c 27	NASA-CASE-ARC-11421-2
		US-PATENT-CLASS-60-203.1			US-PATENT-CLASS-126-418			US-PATENT-APPL-SN-739760
		US-PATENT-CLASS-60-39.465			US-PATENT-CLASS-126-419			US-PATENT-CLASS-428-473.5
		US-PATENT-4,585,191			US-PATENT-CLASS-126-438			US-PATENT-CLASS-528-170
N86-26435 * #	c 27	NAS 1.71:LAR-13447-1			US-PATENT-4,586,487			US-PATENT-CLASS-528-220
		NASA-CASE-LAR-13447-1	N86-28131 *	c 24	NASA-CASE-ARC-11615-1SB			US-PATENT-CLASS-528-321
		US-PATENT-APPL-SN-855879			US-PATENT-APPL-SN-706682			US-PATENT-CLASS-528-322
N86-26575 * #	c 34	NAS 1.71:LAR-13532-1			US-PATENT-CLASS-428-116			US-PATENT-4,600,769
		NASA-CASE-LAR-13532-1			US-PATENT-CLASS-428-408	N86-31727 *	c 27	NASA-CASE-LAR-13351-1
		US-PATENT-APPL-SN-838649			US-PATENT-CLASS-428-921			US-PATENT-APPL-SN-643589
N86-26595 *	c 35	NASA-CASE-MS-20653-1			US-PATENT-CLASS-526-265			US-PATENT-CLASS-264-212
		US-PATENT-APPL-SN-659474			US-PATENT-4,598,007			US-PATENT-CLASS-264-236
		US-PATENT-CLASS-73-863.21	N86-28618 *	c 54	NASA-CASE-ARC-11616-1			US-PATENT-CLASS-427-162
		US-PATENT-CLASS-73-863.31			US-PATENT-APPL-SN-684193			US-PATENT-CLASS-427-164
		US-PATENT-CLASS-73-863.72			US-PATENT-CLASS-128-202.11			US-PATENT-CLASS-427-165
		US-PATENT-CLASS-73-864.34			US-PATENT-CLASS-2-2.1A			US-PATENT-CLASS-428-336
		US-PATENT-4,584,887			US-PATENT-CLASS-2-2.1R			US-PATENT-CLASS-428-473.5
N86-26598 * #	c 35	NAS 1.71:MFS-26002-1-CU			US-PATENT-CLASS-414-1			US-PATENT-4,603,061
		NASA-CASE-MFS-26002-1-CU			US-PATENT-CLASS-414-5	N86-32266 *	c 74	NASA-CASE-GSC-12761-1
		US-PATENT-APPL-SN-765991			US-PATENT-CLASS-414-7			US-PATENT-APPL-SN-406820
N86-27270 *	c 04	NASA-CASE-NPO-16171-1CU			US-PATENT-CLASS-414-8			US-PATENT-CLASS-356-4.5
		US-PATENT-APPL-SN-551536			US-PATENT-4,593,415			US-PATENT-CLASS-356-5
		US-PATENT-CLASS-343-357	N86-28619 *	c 54	NASA-CASE-ARC-11610-1	N86-32447 *	c 09	US-PATENT-4,600,299
		US-PATENT-CLASS-343-418			US-PATENT-APPL-SN-684190			NASA-CASE-ARC-11504-1
		US-PATENT-4,578,678			US-PATENT-CLASS-138-120			US-PATENT-APPL-SN-565481
N86-27280 *	c 06	NASA-CASE-LAR-12518-1			US-PATENT-CLASS-2-2.1A			US-PATENT-CLASS-356-73
		US-PATENT-APPL-SN-578388			US-PATENT-CLASS-2-2.1R			US-PATENT-4,605,303
		US-PATENT-CLASS-244-181			US-PATENT-CLASS-285-168	N86-32525 *	c 23	NASA-CASE-ARC-11506-2
		US-PATENT-CLASS-340-968			US-PATENT-4,598,427			US-PATENT-APPL-SN-641142
		US-PATENT-CLASS-364-433	N86-28620 *	c 54	NASA-CASE-ARC-11543-1			US-PATENT-CLASS-528-108
		US-PATENT-CLASS-364-435			US-PATENT-APPL-SN-684192			US-PATENT-CLASS-528-124
		US-PATENT-CLASS-73-1787			US-PATENT-CLASS-138-120			US-PATENT-CLASS-528-337
		US-PATENT-4,586,140			US-PATENT-CLASS-2-2.1A			US-PATENT-CLASS-528-352
N86-27288 *	c 08	NASA-CASE-ARC-11372-1			US-PATENT-CLASS-285-168			US-PATENT-CLASS-528-399
		US-PATENT-APPL-SN-415878			US-PATENT-CLASS-414-7			US-PATENT-CLASS-528-406
		US-PATENT-CLASS-200-157	N86-28732 *	c 74	US-PATENT-4,594,734			US-PATENT-CLASS-528-407
		US-PATENT-CLASS-244-234			NASA-CASE-GSC-12825-1			US-PATENT-4,587,324
		US-PATENT-CLASS-250-211K			US-PATENT-APPL-SN-698641	N86-32526 * #	c 23	NAS 1.71:LAR-13555-1
		US-PATENT-CLASS-318-584			US-PATENT-CLASS-350-276R			NASA-CASE-LAR-13555-1
		US-PATENT-CLASS-318-640			US-PATENT-CLASS-350-505			US-PATENT-APPL-SN-871207
		US-PATENT-4,584,510			US-PATENT-CLASS-354-479	N86-32540 * #	c 25	NAS 1.71:LAR-13542
N86-27431 *	c 25	NASA-CASE-MS-20206-1			US-PATENT-CLASS-358-222			NASA-CASE-LAR-13542-1SB
		US-PATENT-APPL-SN-478129			US-PATENT-4,598,981			US-PATENT-APPL-SN-874304
		US-PATENT-CLASS-141-198	N86-28760 *	c 76	NASA-CASE-NPO-15904-1	N86-32550 *	c 26	NASA-CASE-GSC-12880-1
		US-PATENT-CLASS-200-61.05			US-PATENT-APPL-SN-465369			US-PATENT-APPL-SN-590925
		US-PATENT-CLASS-340-605			US-PATENT-CLASS-156-DIG.88			US-PATENT-CLASS-427-191
		US-PATENT-4,591,838			US-PATENT-CLASS-156-610			US-PATENT-CLASS-427-192
N86-27450 *	c 27	NASA-CASE-LAR-13316-1			US-PATENT-CLASS-156-624			US-PATENT-CLASS-427-421
		US-PATENT-APPL-SN-613139			US-PATENT-4,596,626			US-PATENT-CLASS-427-427
		US-PATENT-CLASS-260-544P	N86-29039 *	c 27	NASA-CASE-LAR-13353-1			US-PATENT-4,552,784
		US-PATENT-CLASS-525-534			US-PATENT-APPL-SN-643524	N86-32551 *	c 26	NASA-CASE-NPO-15658-1
		US-PATENT-CLASS-525-535			US-PATENT-CLASS-264-204			US-PATENT-APPL-SN-451896
		US-PATENT-CLASS-526-285			US-PATENT-CLASS-264-216			US-PATENT-CLASS-219-121LE
		US-PATENT-CLASS-528-171			US-PATENT-CLASS-264-236			US-PATENT-CLASS-219-121LY
		US-PATENT-CLASS-528-174			US-PATENT-CLASS-264-347			US-PATENT-CLASS-264-5
		US-PATENT-CLASS-528-176			US-PATENT-CLASS-528-183			US-PATENT-CLASS-425-6
		US-PATENT-4,587,312			US-PATENT-CLASS-528-222			US-PATENT-CLASS-65-142
N86-27451 *	c 27	NASA-CASE-ARC-11427-2			US-PATENT-CLASS-528-341			US-PATENT-CLASS-65-21.2
		US-PATENT-APPL-SN-765980			US-PATENT-CLASS-528-222			US-PATENT-CLASS-65-505
		US-PATENT-CLASS-523-434			US-PATENT-4,595,548			US-PATENT-4,553,917
		US-PATENT-CLASS-523-445	N86-29055 *	c 31	NASA-CASE-MFS-25825-1	N86-32556 * #	c 26	NAS 1.71:LEW-14104-2
		US-PATENT-CLASS-523-461			US-PATENT-APPL-SN-657309			

			NASA-CASE-LEW-14104-2				US-PATENT-APPL-SN-875798				US-PATENT-CLASS-528-26
			US-PATENT-APPL-SN-823713		N86-32875*	c 44	NASA-CASE-LEW-14177-1				US-PATENT-4,624,888
N86-32568*	#	c 27	NASA-CASE-ARC-11512-2				US-PATENT-APPL-SN-669140		N87-14559*	c 32	NASA-CASE-LAR-13310-1
			US-PATENT-APPL-SN-641153				US-PATENT-CLASS-136-261				US-PATENT-APPL-SN-709257
			US-PATENT-CLASS-528-336				US-PATENT-CLASS-148-1.5				US-PATENT-CLASS-356-5
			US-PATENT-CLASS-528-337				US-PATENT-CLASS-29-572				US-PATENT-CLASS-367-99
			US-PATENT-CLASS-528-340				US-PATENT-CLASS-29-576B				US-PATENT-CLASS-73-597
			US-PATENT-CLASS-528-347				US-PATENT-CLASS-357-30				US-PATENT-CLASS-73-615
			US-PATENT-CLASS-564-15				US-PATENT-CLASS-357-91				US-PATENT-4,624,142
			US-PATENT-CLASS-568-14				US-PATENT-4,608,452		N87-14594*	c 33	NASA-CASE-NPO-16299-1
N86-32569*	#	c 27	US-PATENT-4,602,081				NASA-CASE-NPO-16372-1				US-PATENT-APPL-SN-541526
			NASA-CASE-LEW-14072-2		N86-33127*	c 72	US-PATENT-APPL-SN-703847				US-PATENT-CLASS-356-389
			US-PATENT-APPL-SN-761235				US-PATENT-CLASS-250-336.1				US-PATENT-4,623,255
			US-PATENT-CLASS-204-192C				US-PATENT-CLASS-250-338		N87-14669*	c 35	NASA-CASE-LAR-13268-1
			US-PATENT-CLASS-204-192D				US-PATENT-CLASS-250-340				US-PATENT-APPL-SN-727034
			US-PATENT-CLASS-204-298				US-PATENT-4,600,840				US-PATENT-CLASS-356-28.5
			US-PATENT-4,604,181		N86-33138*	#	NAS 1.71:NPO-16869				US-PATENT-CLASS-356-301
N86-32570*	#	c 27	NAS 1.71:GSC-13008-1				NASA-CASE-NPO-16869-1CU				US-PATENT-4,624,561
			NASA-CASE-GSC-13008-1				US-PATENT-APPL-SN-867986		N87-14670*	c 35	NASA-CASE-MFS-25981-1
			US-PATENT-APPL-SN-867987		N87-10174*	#	NAS 1.71:LEW-14338-1				US-PATENT-APPL-SN-657310
N86-32587*	#	c 31	NASA-CASE-LEW-14130-1				NASA-CASE-LEW-14338-1				US-PATENT-CLASS-73-462
			US-PATENT-APPL-SN-659475				US-PATENT-APPL-SN-897239				US-PATENT-CLASS-73-473
			US-PATENT-CLASS-204-192C		N87-10205*	#	NAS 1.71:ARC-11649-1-SB				US-PATENT-CLASS-73-477
			US-PATENT-CLASS-204-192D				NASA-CASE-ARC-11649-1-SB				US-PATENT-4,619,142
			US-PATENT-CLASS-204-298				US-PATENT-APPL-SN-890577		N87-14671*	c 35	NASA-CASE-GSC-12956-1
			US-PATENT-CLASS-313-106		N87-10231*	#	NAS 1.71:NPO-16784-1				US-PATENT-APPL-SN-745977
			US-PATENT-CLASS-313-107				NASA-CASE-NPO-16784-1				US-PATENT-CLASS-148-187
			US-PATENT-CLASS-315-5.38				US-PATENT-APPL-SN-879757				US-PATENT-CLASS-148-188
			US-PATENT-CLASS-427-39		N87-13313*	#	NASA-CASE-NPO-16045-1				US-PATENT-CLASS-148-189
			US-PATENT-4,607,193				US-PATENT-APPL-SN-641146				US-PATENT-CLASS-148-190
N86-32589*	#	c 31	NAS 1.71:MFS-28153-1				US-PATENT-CLASS-250-338				US-PATENT-CLASS-29-580
			NASA-CASE-MFS-28153-1				US-PATENT-CLASS-250-370				US-PATENT-CLASS-29-591
			US-PATENT-APPL-SN-875891				US-PATENT-CLASS-357-23.1		N87-14676*	#	US-PATENT-4,618,380
N86-32624*	#	c 33	NASA-CASE-GSC-12958-1				US-PATENT-CLASS-357-23.12				NAS 1.71:MSC-20467-1
			US-PATENT-APPL-SN-727035				US-PATENT-CLASS-357-29				NASA-CASE-MSC-20467-1
			US-PATENT-CLASS-331-108D				US-PATENT-CLASS-357-30				US-PATENT-APPL-SN-874319
			US-PATENT-CLASS-331-116R				US-PATENT-CLASS-357-52		N87-14704*	#	NAS 1.71:NPO-16892-1-CU
			US-PATENT-CLASS-331-66				US-PATENT-4,605,946				NASA-CASE-NPO-16892-1-CU
			US-PATENT-CLASS-374-183		N87-14282*	#	NAS 1.71:AR-13215-1				US-PATENT-APPL-SN-921573
			US-PATENT-4,603,306				NASA-CASE-LAR-13215-1		N87-14705*	#	NAS 1.71:NPO-16766-1-CU
N86-32626*	#	c 33	NAS 1.71:LAR-13202-1				US-PATENT-APPL-SN-904132				NASA-CASE-NPO-16766-1-CU
			NASA-CASE-LAR-13202-1		N87-14314*	#	NASA-CASE-LAR-13173-1				US-PATENT-APPL-SN-921577
			US-PATENT-APPL-SN-879758				US-PATENT-APPL-SN-690274		N87-14863*	#	NAS 1.71:MSC-20964-1
N86-32695*	#	c 35	NASA-CASE-NPO-16479-1CU				US-PATENT-CLASS-244-118.1				NASA-CASE-MSC-20964-1
			US-PATENT-APPL-SN-719794				US-PATENT-CLASS-244-137-A				US-PATENT-APPL-SN-878916
			US-PATENT-CLASS-73-502				US-PATENT-CLASS-244-17.27		N87-14971*	c 74	NASA-CASE-MFS-26000-1
			US-PATENT-CLASS-73-521				US-PATENT-CLASS-248-638				US-PATENT-APPL-SN-571615
			US-PATENT-4,602,509				US-PATENT-CLASS-289-1.54				US-PATENT-CLASS-356-246
N86-32696*	#	c 35	NASA-CASE-LAR-13294-1				US-PATENT-4,616,793				US-PATENT-CLASS-372-61
			US-PATENT-APPL-SN-706681		N87-14355*	#	NASA-CASE-MFS-28057-1				US-PATENT-4,614,428
			US-PATENT-CLASS-73-147				US-PATENT-APPL-SN-729766		N87-15004*	#	NAS 1.71:MFS-28144-1
			US-PATENT-CLASS-73-862.04				US-PATENT-CLASS-350-319				NASA-CASE-MFS-28144-1
			US-PATENT-CLASS-73-862.61				US-PATENT-4,618,215				US-PATENT-APPL-SN-924399
			US-PATENT-4,604,903		N87-14373*	#	NASA-CASE-MSC-20635-1		N87-15259*	#	NAS 1.71:LAR-13411-1
N86-32697*	#	c 35	NAS 1.71:ARC-11510-1				US-PATENT-APPL-SN-588039				NASA-CASE-LAR-13411-1-SB
			NASA-CASE-ARC-11510-1				US-PATENT-CLASS-16-294				US-PATENT-APPL-SN-913432
			US-PATENT-APPL-SN-602049				US-PATENT-CLASS-16-370		N87-15260*	#	NAS 1.71:MSC-20985-1
			US-PATENT-CLASS-356-28.5				US-PATENT-CLASS-403-102				NASA-CASE-MSC-20985-1
			US-PATENT-CLASS-356-72				US-PATENT-CLASS-403-119				US-PATENT-APPL-SN-904134
			US-PATENT-CLASS-356-73				US-PATENT-CLASS-403-146		N87-15304*	c 27	NASA-CASE-ARC-11429-4CU
			US-PATENT-CLASS-434-4				US-PATENT-CLASS-403-163				US-PATENT-APPL-SN-725686
			US-PATENT-4,600,301				US-PATENT-CLASS-403-85				US-PATENT-CLASS-525-282
N86-32698*	#	c 35	NASA-CASE-MFS-25833-1				US-PATENT-4,615,637				US-PATENT-4,618,652
			US-PATENT-APPL-SN-473827		N87-14413*	#	NAS 1.71:AR-13490-1		N87-15327*	#	NAS 1.71:NPO-16901-1-CU
			US-PATENT-CLASS-324-226				NASA-CASE-LAR-13490-1				NASA-CASE-NPO-16901-1-CU
			US-PATENT-CLASS-324-238				US-PATENT-APPL-SN-899683				US-PATENT-APPL-SN-921574
			US-PATENT-CLASS-324-240		N87-14420*	#	NASA-CASE-MFS-25989-1		N87-15390*	#	NAS 1.71:NPO-16632-1-CU
			US-PATENT-CLASS-324-262				US-PATENT-APPL-SN-690273				NASA-CASE-NPO-16632-1-CU
			US-PATENT-CLASS-73-37.5				US-PATENT-CLASS-239-132.5				US-PATENT-APPL-SN-890586
			US-PATENT-4,551,677				US-PATENT-CLASS-239-403		N87-15413*	#	NAS 1.71:NPO-16932-1
N86-32700*	#	c 35	NAS 1.71:AR-13300-CU				US-PATENT-CLASS-239-425				NASA-CASE-NPO-16932-1CU
			NASA-CASE-LAR-13300-1CU				US-PATENT-CLASS-60-258				US-PATENT-APPL-SN-913433
			US-PATENT-APPL-SN-829042				US-PATENT-CLASS-60-746		N87-15414*	#	NAS 1.71:NPO-16764-1
N86-32701*	#	c 35	NAS 1.71:AR-13560-1				US-PATENT-4,621,492				NASA-CASE-NPO-16964-1CU
			NASA-CASE-LAR-13560-1		N87-14432*	#	NAS 1.71:LEW-14345-1				US-PATENT-APPL-SN-704513
			US-PATENT-APPL-SN-886123				NASA-CASE-LEW-14345-1		N87-15452*	#	NAS 1.71:LEW-14297-1
N86-32736*	#	c 37	NASA-CASE-MFS-19796-1				US-PATENT-APPL-SN-924474				NASA-CASE-LEW-14297-1
			US-PATENT-APPL-SN-770920		N87-14433*	#	NAS 1.71:LEW-14346-1				US-PATENT-APPL-SN-917125
			US-PATENT-CLASS-138-97				NASA-CASE-LEW-14346-1		N87-15464*	#	NAS 1.71:AR-13435-1
			US-PATENT-CLASS-165-76				US-PATENT-APPL-SN-934470				NASA-CASE-LAR-13435-1
			US-PATENT-CLASS-228-119		N87-14442*	#	NAS 1.71:ARC-11641-1				US-PATENT-APPL-SN-890683
			US-PATENT-CLASS-29-402.16				NASA-CASE-ARC-11641-1		N87-15465*	#	NAS 1.71:MSC-20761-1
			US-PATENT-4,605,155				US-PATENT-APPL-SN-862925				NASA-CASE-MSC-20761-1
N86-32737*	#	c 37	NASA-CASE-LAR-13081-1		N87-14482*	#	NASA-CASE-LEW-13834-1				US-PATENT-APPL-SN-913446
			US-PATENT-APPL-SN-760378				US-PATENT-APPL-SN-478131		N87-15882*	#	NASA-CASE-NPO-15813-2
			US-PATENT-CLASS-52-111				US-PATENT-CLASS-148-429				US-PATENT-APPL-SN-706564
			US-PATENT-CLASS-52-632				US-PATENT-CLASS-420-460				US-PATENT-CLASS-148-174
			US-PATENT-CLASS-52-645				US-PATENT-4,610,736				US-PATENT-CLASS-148-175
			US-PATENT-CLASS-52-646		N87-14515*	#	NASA-CASE-LAR-13316-2				US-PATENT-CLASS-29-575
			US-PATENT-4,604,844				US-PATENT-APPL-SN-760791				US-PATENT-CLASS-29-576-E
N86-32738*	#	c 37	NASA-CASE-MFS-28059-1				US-PATENT-CLASS-260-544-P				US-PATENT-CLASS-29-576-J
			US-PATENT-APPL-SN-709255				US-PATENT-4,622,182				US-PATENT-CLASS-29-576-W
			US-PATENT-CLASS-417-475		N87-14516*	#	NASA-CASE-LAR-13318-1				US-PATENT-CLASS-29-578
			US-PATENT-4,604,038				US-PATENT-APPL-SN-781813				US-PATENT-4,612,072
N86-32740*	#	c 37	NAS 1.71:LEW-14212-1				US-PATENT-CLASS-428-262		N87-15883*	#	NAS 1.71:NPO-16607-1
			NASA-CASE-LEW-14212-1				US-PATENT-CLASS-428-447				NASA-CASE-NPO-16607-1CU

N87-16793*	c 02	US-PATENT-APPL-SN-901114	US-PATENT-CLASS-219-124.34	N87-21206*	c 32	US-PATENT-4,620,898	
		NASA-CASE-LAR-13255-1	US-PATENT-CLASS-219-130.01			NASA-CASE-LAR-13455-1	
		US-PATENT-APPL-SN-550681	US-PATENT-4,633,060			US-PATENT-APPL-SN-804040	
		US-PATENT-CLASS-244-130	NAS 1.71-LAR-13554-1			US-PATENT-CLASS-250-341	
		US-PATENT-CLASS-244-200	NASA-CASE-LAR-13554-1			US-PATENT-CLASS-374-122	
		US-PATENT-CLASS-244-204	US-PATENT-APPL-SN-929862			US-PATENT-CLASS-374-9	
		US-PATENT-CLASS-244-35R	NAS 1.71-ARC-11636-1			US-PATENT-4,645,358	
		US-PATENT-4,619,423	NASA-CASE-ARC-11636-1			NASA-CASE-NPO-16256-1	
N87-16828*	c 07	NASA-CASE-LAR-13134-2	US-PATENT-APPL-SN-933963	N87-21207*	c 32	US-PATENT-APPL-SN-638586	
		US-PATENT-APPL-SN-846462	NAS 1.71-MS-21056-1			US-PATENT-CLASS-329-107	
		US-PATENT-CLASS-244-130	NASA-CASE-MS-21056-1			US-PATENT-CLASS-375-110	
		US-PATENT-CLASS-244-55	US-PATENT-APPL-SN-924397			US-PATENT-CLASS-375-120	
		US-PATENT-4,629,147	NAS 1.71-MS-21096-1			US-PATENT-CLASS-375-23	
		NASA-CASE-LAR-13006-1	NASA-CASE-MS-21096-1		US-PATENT-CLASS-455-608		
		US-PATENT-APPL-SN-470113	US-PATENT-APPL-SN-929865		US-PATENT-4,648,133		
		US-PATENT-CLASS-340-825.5	NAS 1.71-MS-21117-1		NASA-CASE-GSC-13018-1		
		US-PATENT-CLASS-340-870.18	NASA-CASE-MS-21117-1	N87-21232*	c 33	US-PATENT-APPL-SN-862959	
		US-PATENT-CLASS-371-63	US-PATENT-APPL-SN-929875			US-PATENT-CLASS-331-116-R	
		US-PATENT-CLASS-375-88	NAS 1.71-LAR-13562-1			US-PATENT-CLASS-331-117-R	
		US-PATENT-4,631,538	NASA-CASE-LAR-13562-1			US-PATENT-CLASS-331-56	
N87-16875*	c 20	NASA-CASE-LEW-14037-1	US-PATENT-APPL-SN-921572	N87-21233*	c 33	US-PATENT-4,660,000	
		US-PATENT-APPL-SN-636463	NAS 1.71-NPO-16907-1-CU			NASA-CASE-MFS-28080-1	
		US-PATENT-CLASS-219-275	NASA-CASE-NPO-16907-1-CU			US-PATENT-APPL-SN-775548	
		US-PATENT-CLASS-60-203.1	US-PATENT-APPL-SN-930217			US-PATENT-CLASS-318-138	
		US-PATENT-4,608,821	NAS 1.71-LAR-13528-1			US-PATENT-CLASS-318-254	
		NASA-CASE-LAR-13118-2	NASA-CASE-LAR-13528-1		US-PATENT-CLASS-318-439		
		US-PATENT-APPL-SN-760797	US-PATENT-APPL-SN-933962		US-PATENT-4,644,234		
		US-PATENT-CLASS-560-104	NAS 1.71-MFS-28142-1		NASA-CASE-LEW-13935-1		
N87-16907*	c 27	US-PATENT-4,638,083	NASA-CASE-MFS-28142-1	N87-21234*	c 33	US-PATENT-APPL-SN-700255	
		NASA-CASE-ARC-11429-3CU	US-PATENT-APPL-SN-904128			US-PATENT-CLASS-250-423-R	
		US-PATENT-APPL-SN-725725	NAS 1.71-MFS-28139-1			US-PATENT-CLASS-315-111.81	
		US-PATENT-CLASS-546-339	NASA-CASE-MFS-28139-1			US-PATENT-4,642,523	
		US-PATENT-CLASS-546-346	US-PATENT-APPL-SN-911851	N87-21235*	c 33	NASA-CASE-LAR-13151-1	
		US-PATENT-CLASS-546-350	NAS 1.71-NPO-16904-1-CU			US-PATENT-APPL-SN-683101	
		US-PATENT-4,626,593	NASA-CASE-NPO-16904-1-CU			US-PATENT-CLASS-307-261	
		NASA-CASE-ARC-11428-2	US-PATENT-APPL-SN-929876			US-PATENT-CLASS-307-354	
		US-PATENT-APPL-SN-760374	NAS 1.71-MS-20865-1			US-PATENT-CLASS-328-147	
		US-PATENT-CLASS-428-421	NASA-CASE-MS-20865-1		US-PATENT-CLASS-328-164		
		US-PATENT-CLASS-428-473.5	US-PATENT-APPL-SN-924472		US-PATENT-CLASS-328-28		
		US-PATENT-CLASS-428-500	NAS 1.71-LAR-13552-1-CU		US-PATENT-4,652,833		
		US-PATENT-CLASS-428-704	NASA-CASE-LAR-13552-1-CU	N87-21255*	c 34	NASA-CASE-ARC-11631-1	
		US-PATENT-CLASS-528-168	US-PATENT-APPL-SN-933941			US-PATENT-APPL-SN-846428	
		US-PATENT-CLASS-528-321	NAS 1.71-MS-20840-1			US-PATENT-CLASS-239-426	
		US-PATENT-CLASS-528-322	NASA-CASE-MS-20840-1			US-PATENT-CLASS-239-434	
		US-PATENT-4,634,759	US-PATENT-APPL-SN-943346			US-PATENT-CLASS-239-545	
		NASA-CASE-ARC-11363-1	NAS 1.71-MFS-28161-1	US-PATENT-CLASS-73-147			
		US-PATENT-APPL-SN-500046	NASA-CASE-MFS-28161-1	US-PATENT-4,648,267			
		US-PATENT-CLASS-52-126.5	US-PATENT-APPL-SN-942159	NASA-CASE-NPO-15617-1			
		US-PATENT-CLASS-52-309.15	NAS 1.71-MS-20907-1	N87-21304*	c 35	US-PATENT-APPL-SN-403849	
		US-PATENT-CLASS-52-391	NASA-CASE-MS-20907-1			US-PATENT-CLASS-74-424.8-R	
		US-PATENT-CLASS-52-511	US-PATENT-APPL-SN-927992			US-PATENT-CLASS-74-441	
		US-PATENT-CLASS-52-814	NAS 1.71-NPO-16949-1-CU			US-PATENT-CLASS-74-458	
		US-PATENT-4,637,181	NASA-CASE-NPO-16949-1-CU			US-PATENT-CLASS-74-468	
		NASA-CASE-ARC-11547-1	US-PATENT-APPL-SN-927987	US-PATENT-CLASS-74-89.15			
		US-PATENT-APPL-SN-692745	NAS 1.71-NPO-16750-1-CU	US-PATENT-4,586,394			
		US-PATENT-CLASS-356-28	NASA-CASE-NPO-16750-1-CU	NASA-CASE-MFS-28058-1			
		US-PATENT-CLASS-356-28.5	US-PATENT-APPL-SN-927972	N87-21332*	c 37	US-PATENT-APPL-SN-751691	
		US-PATENT-4,632,548	NAS 1.71-MFS-28137-1			US-PATENT-CLASS-137-606	
		NASA-CASE-NPO-16321-1CU	NASA-CASE-MFS-28137-1			US-PATENT-CLASS-251-165	
		US-PATENT-APPL-SN-692802	US-PATENT-APPL-SN-925189			US-PATENT-4,657,044	
		US-PATENT-CLASS-305-36	NASA-CASE-LAR-13280-1	N87-21333*	c 37	NASA-CASE-MFS-25956-1	
		US-PATENT-CLASS-305-51	US-PATENT-APPL-SN-790556			US-PATENT-APPL-SN-580397	
		US-PATENT-CLASS-305-58PC	US-PATENT-CLASS-244-76-R			US-PATENT-CLASS-248-316.4	
		US-PATENT-CLASS-305-58R	US-PATENT-CLASS-340-967			US-PATENT-CLASS-248-550	
		US-PATENT-CLASS-474-220	US-PATENT-4,648,569			US-PATENT-4,582,289	
		US-PATENT-4,626,046	NASA-CASE-MFS-28090-1	N87-21334*	c 37	NASA-CASE-NPO-16423-1-CU	
		NASA-CASE-MS-20857-1	US-PATENT-APPL-SN-805012			US-PATENT-APPL-SN-765978	
		US-PATENT-APPL-SN-783886	US-PATENT-CLASS-65-13			US-PATENT-CLASS-228-124	
US-PATENT-CLASS-134-166C	US-PATENT-CLASS-65-134	US-PATENT-CLASS-228-208					
		US-PATENT-CLASS-134-93	US-PATENT-CLASS-65-136			US-PATENT-CLASS-228-209	
		US-PATENT-CLASS-210-282	US-PATENT-CLASS-65-2	US-PATENT-CLASS-427-229			
		US-PATENT-4,635,663	US-PATENT-4,654,065	US-PATENT-4,650,108			
		NASA-CASE-MS-20162-1	NASA-CASE-ARC-11511-2	NASA-CASE-MFS-25978-1			
		US-PATENT-APPL-SN-764805	US-PATENT-APPL-SN-754362	N87-21410*	c 44	US-PATENT-APPL-SN-636459	
		US-PATENT-CLASS-135-903	US-PATENT-CLASS-528-220			US-PATENT-CLASS-307-131	
		US-PATENT-CLASS-160-23R	US-PATENT-CLASS-528-229			US-PATENT-CLASS-307-31	
		US-PATENT-CLASS-160-265	US-PATENT-CLASS-528-322			US-PATENT-CLASS-307-64	
		US-PATENT-CLASS-244-121	US-PATENT-CLASS-528-327			US-PATENT-CLASS-307-66	
		US-PATENT-CLASS-244-158R	US-PATENT-CLASS-528-331	US-PATENT-CLASS-307-80			
		US-PATENT-CLASS-296-100	US-PATENT-CLASS-528-362	US-PATENT-CLASS-318-107			
		US-PATENT-4,637,447	US-PATENT-4,649,189	US-PATENT-CLASS-318-161			
N87-17037*	c 37	NASA-CASE-MS-20475-1	NASA-CASE-NPO-16393-1-CU	N87-21591*	c 60	US-PATENT-4,649,287	
		US-PATENT-APPL-SN-725689	US-PATENT-APPL-SN-701486			NASA-CASE-NPO-15982-1	
		US-PATENT-CLASS-192-46	US-PATENT-CLASS-62-384			US-PATENT-APPL-SN-673685	
		US-PATENT-CLASS-192-67R	US-PATENT-CLASS-62-48			US-PATENT-CLASS-371-37	
		US-PATENT-4,635,773	US-PATENT-CLASS-62-514-R			US-PATENT-CLASS-371-40	
		NASA-CASE-GSC-12957-1	US-PATENT-4,641,499	N87-21652*	c 71	NASA-CASE-LAR-13111-1-CU	
		US-PATENT-APPL-SN-800193	NASA-CASE-LEW-13899-1			US-PATENT-APPL-SN-751695	
		US-PATENT-CLASS-310-90.5	US-PATENT-APPL-SN-775968			US-PATENT-CLASS-73-583	
US-PATENT-4,634,191	US-PATENT-CLASS-156-345	US-PATENT-CLASS-73-589					
N87-17399*	c 44	NASA-CASE-NPO-16526-1CU	US-PATENT-CLASS-156-643			US-PATENT-CLASS-73-599	
		US-PATENT-APPL-SN-809975	US-PATENT-CLASS-156-646		US-PATENT-4,644,794		
		US-PATENT-CLASS-136-249	US-PATENT-CLASS-156-659.1		N87-21653*	c 71	NASA-CASE-LAR-13440-1
		US-PATENT-4,631,352	US-PATENT-CLASS-156-661.1				US-PATENT-APPL-SN-775989
N87-17493*	c 74	NASA-CASE-MFS-29134-1	US-PATENT-CLASS-156-904			US-PATENT-CLASS-73-1-DV	
		US-PATENT-APPL-SN-783890	US-PATENT-CLASS-204-298				

		US-PATENT-CLASS-73-599		US-PATENT-CLASS-411-166	N87-23970*	c 37	NASA-CASE-NPO-15482-1
		US-PATENT-4,649,750		US-PATENT-CLASS-411-368			US-PATENT-APPL-SN-526739
N87-21660*	c 72	NASA-CASE-NPO-16061-1-CU		US-PATENT-CLASS-411-424			US-PATENT-CLASS-310-306
		US-PATENT-APPL-SN-729768		US-PATENT-CLASS-411-427			US-PATENT-CLASS-337-393
		US-PATENT-CLASS-250-288		US-PATENT-CLASS-411-531			US-PATENT-4,665,334
		US-PATENT-CLASS-250-423-R		US-PATENT-4,572,699	N87-23981*	c 37	NASA-CASE-MSC-20797-1
		US-PATENT-CLASS-250-424		US-PATENT-4,650,385			US-PATENT-APPL-SN-771537
		US-PATENT-CLASS-250-427	N87-22977*	NASA-CASE-MFS-25964-2	c 37		US-PATENT-CLASS-156-286
		US-PATENT-CLASS-313-359.1		US-PATENT-APPL-SN-692801			US-PATENT-CLASS-156-289
		US-PATENT-CLASS-313-361.1		US-PATENT-APPL-SN-853361			US-PATENT-CLASS-156-298
		US-PATENT-CLASS-313-362.1		US-PATENT-CLASS-285-305			US-PATENT-CLASS-156-307.1
		US-PATENT-4,649,278		US-PATENT-CLASS-285-81			US-PATENT-CLASS-156-307.3
N87-21661*	c 72	NASA-CASE-NPO-16640-1-CU		US-PATENT-CLASS-285-85			US-PATENT-CLASS-156-307.7
		US-PATENT-APPL-SN-852468		US-PATENT-CLASS-285-91			US-PATENT-CLASS-156-87
		US-PATENT-CLASS-250-251		US-PATENT-4,655,482			US-PATENT-4,676,853
		US-PATENT-CLASS-250-396-R	N87-22985*	NASA-CASE-MSC-20979-1	c 37		NASA-CASE-LAR-13100-1
		US-PATENT-CLASS-250-423-P		US-PATENT-APPL-SN-796053			US-PATENT-APPL-SN-831377
		US-PATENT-CLASS-376-127		US-PATENT-CLASS-244/161			US-PATENT-CLASS-250-238
		US-PATENT-4,649,273		US-PATENT-4,664,344			US-PATENT-CLASS-250-352
N87-21679*	c 74	NASA-CASE-GSC-12897-1	N87-23259*	NASA-CASE-NPO-16558-1-CU	c 74		US-PATENT-CLASS-62-514-R
		US-PATENT-APPL-SN-606432		US-PATENT-APPL-SN-779744			US-PATENT-4,672,202
		US-PATENT-CLASS-350-6.5		US-PATENT-CLASS-250-231-GY	N87-23983*	c 37	NASA-CASE-LAR-13198-1
		US-PATENT-4,647,144		US-PATENT-CLASS-356-350			US-PATENT-APPL-SN-729704
N87-21755*	c 85	NASA-CASE-KSC-11282-1		US-PATENT-4,662,751			US-PATENT-CLASS-60-634
		US-PATENT-APPL-SN-751644	N87-23286*	NASA-CASE-NPO-15800-2	c 76		US-PATENT-CLASS-60-638
		US-PATENT-CLASS-180-19.2		US-PATENT-APPL-SN-442815			US-PATENT-CLASS-89-1.14
		US-PATENT-CLASS-180-305		US-PATENT-APPL-SN-674395			US-PATENT-4,669,354
		US-PATENT-CLASS-280-47.11		US-PATENT-CLASS-156-607	N87-24460* #	c 05	NAS 1.71: LAR-13609-1
		US-PATENT-CLASS-296-20		US-PATENT-CLASS-156-617-H			NASA-CASE-LAR-13609-1
		US-PATENT-CLASS-5-81-R		US-PATENT-CLASS-156-617-SP			US-PATENT-APPL-SN-041387
		US-PATENT-CLASS-60-415		US-PATENT-4,654,110	N87-24461* #	c 05	NAS 1.71: LAR-12852-1
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PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Licensing of NASA Inventions

AGENCY: National Aeronautics and Space Administration.

ACTION: Interim regulation with comments requested.

SUMMARY: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the *Federal Register* after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

ADDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546.

FOR FURTHER INFORMATION CONTACT: Mr. John G. Mannix, (202) 755-3954.

SUPPLEMENTARY INFORMATION:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

Subpart 2 of Part 1245 is revised to read as follows

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Subpart 2—Licensing of NASA Inventions

Sec.

- 1245.200 Scope of subpart.
- 1245.201 Policy and objective.
- 1245.202 Definitions.
- 1245.203 Authority to grant licenses.

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- 1245.206 Exclusive and partially exclusive licenses.

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- 1245.213 Transfer of custody.

- 1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208, 94 Stat. 3023 and 3024.

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Subpart 2—Licensing of NASA Inventions

§ 1245.200 Scope of subpart.

This subpart prescribes the terms, conditions, and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions.

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title, or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in

13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

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(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to § 1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of

patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§ 1245.205 Nonexclusive licenses.

(a) *Availability of licenses.* Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of § 1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§ 1245.206 Exclusive and partially exclusive licenses.

(a) *Domestic licenses.*

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the *Federal Register*; or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the *Federal Register*, providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in § 1245.206(a)(1)(iii)(A) and consideration of any written objections received during the period, NASA has determined that:

(1) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilization by the public;

(2) The desired practical application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(3) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or otherwise promote the invention's utilization by the public; and

(4) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) *Foreign licenses.*

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license,

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identifying the invention and prospective licensee, has been published in the Federal Register, providing opportunity for filing written objections within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

Procedures

§ 1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

(a) Identification of the invention for which the license is desired, including the patent application serial number or patent number, title, and date, if known;

(b) Identification of the type of license for which the application is submitted;

(c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;

(d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;

(e) Nature and type of applicant's

business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;

(f) Source of information concerning the availability of a license on the invention;

(g) A statement indicating whether applicant is a small business firm as defined in § 1245.202(c);

(h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:

(1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;

(2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;

(3) A statement of the fields of use for which applicant intends to practice the invention; and

(4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;

(i) Identification of licenses previously granted to applicant under Federally owned inventions;

(j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and

(k) Any other information which applicant believes will support a determination to grant the license to applicant.

§ 1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to: (1) grant the license as requested, (2) grant the license with modification after negotiation with the licensee, or (3) deny the license. The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Assistant General Counsel for Patent Matters. Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the

Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Assistant General Counsel for Patent Matters based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the Federal Register in accordance with § 1245.206(a)(1)(iii)(A) or § 1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Assistant General Counsel for Patent Matters.

(c) If the requested license, including any negotiated modifications, is denied by the Assistant General Counsel for Patent Matters, the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with § 1245.211.

§ 1245.209 Notice to Attorney General.

A copy of the notice provided for in §§ 1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§ 1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§ 1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

(1) A person whose application for a license has been denied;

(2) A licensee whose license has been modified or terminated, in whole or in part; or

(3) A person who timely filed a written objection in response to the notice required by §§ 1245.206(a)(1)(iii)(A) or

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1245.208(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under § 1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator

or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§ 1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§ 1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§ 1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to § 1245.207(h) and any report required by § 1245.204(b)(6) may be treated by NASA as commercial and

financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,

Administrator.

October 15, 1981.

[FR Doc. 81-31809 Filed 10-30-81; 8:45 am]

BILLING CODE 7510-01-M

1. Report No. NASA SP-7039 (32)		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle NASA Patent Abstracts Bibliography A Continuing Bibliography Section 2: Indexes (Supplement 32)				5. Report Date January, 1988	
				6. Performing Organization Code	
7. Author(s)				8. Performing Organization Report No.	
9. Performing Organization Name and Address National Aeronautics and Space Administration Washington, DC 20546				10. Work Unit No.	
				11. Contract or Grant No.	
12. Sponsoring Agency Name and Address				13. Type of Report and Period Covered	
				14. Sponsoring Agency Code	
15. Supplementary Notes Section 2: Indexes					
16. Abstract A subject index is provided for over 4700 patents and patent applications for the period May 1969 through December 1987. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. patent numbers, and NASA accession numbers.					
17. Key Words (Suggested by Author(s)) Bibliographies Patent Policy NASA Programs				18. Distribution Statement Unclassified - Unlimited	
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 502	
				22. Price * A22/HC	